

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 15:53:35 ; Search time 1221 Seconds

(without alignments)
1708.756 Million cell updates/sec

Title: US-09-856-937a-1_COPY_580_630

Perfect score: 51 agcagagcagcagcagtcg.....ctgcacatggtgtcctcctc 51

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 segs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl.*

1: gb_da:*
2: gb_hlg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sfs:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_da:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
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21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
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26: em_ro:*
27: em_sfs:*
28: em_un:*
29: em_vl:*
30: em_hlg_hum:*
31: em_hlg_inv:*
32: em_hlg_other:*
33: em_hlg_mus:*
34: em_hlg_pln:*
35: em_hlg_rtd:*
36: em_hlg_mam:*
37: em_hlg_vrt:*
38: em_sy:*
39: em_hlgo_hum:*
40: em_hlgo_mus:*
41: em_hlgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	870	11 G15915	G15915 human STS C
2	51	100.0	2224	6 AR152033	AR152033 Sequence
3	51	100.0	2224	6 AR308134	AR308134 Sequence
4	51	100.0	2253	6 A78517	A78517 Sequence 1
5	51	100.0	2613	6 HSTNFR2510	U52165 Human tumor
6	51	100.0	3380	11 G26865	G26865 human STS S
7	51	100.0	3683	6 AR215688	AR215688 Sequence
8	51	100.0	3683	6 AX333705	AX333705 Sequence
9	51	100.0	3683	6 AX348016	AX348016 Sequence
10	51	100.0	3683	6 AX348018	AX348018 Sequence
11	51	100.0	3683	6 AX348020	AX348020 Sequence
12	51	100.0	3683	6 AX698020	AX698020 Sequence
13	51	100.0	3683	9 HUMNFR	M32315 Human tumor
14	49.4	96.9	2282	9 BC042167	BC042167 Homo sapi
15	48.4	96.9	3692	9 BC052977	BC052977 Homo sapi
16	47.8	93.7	2339	6 A26415	A26415 cDNA fragment
17	47.8	93.7	2394	9 HUMTNERIT	M55994 Human tumor
18	47.8	93.7	3492	9 S63368	S63368 Homo sapien
19	47.8	93.7	15602	6 AR215702	AR215702 Sequence
20	47.8	93.7	45584	9 AY264804	AY264804 Homo sapi
21	47.8	93.7	115602	9 HS1118D24	AL031276 Human DNA
22	47.8	93.7	122105	2 AL355998	AL355998 Homo sapi
23	47.8	93.7	153904	2 BX510650	BX510650 Homo sapi
24	47.8	93.7	187877	2 AC023251	AC023251/Homo sapi
25	30.4	59.6	139958	2 AC141936	AC141936 Rattus no
26	28.8	56.5	212202	2 AC137977	AC137977 Rattus no
27	26.8	52.5	187783	2 AC137462	AC137462 Rattus no
28	26.8	52.5	267375	2 AC095339	AC095339 Rattus no
29	26.6	52.2	104762	2 AC108086	AC108086 Homo sapi
30	26.6	52.2	155666	2 AC008696	AC008696 Homo sapi
31	26.6	52.2	174640	2 AC024479	AC024479 Homo sapi
32	26.6	52.2	187478	2 AC123758	AC123758 Mus muscu
33	26.6	52.2	231407	2 AC139592	AC139592 Rattus no
34	26.4	51.8	303230	2 AC112836	AC112836 Rattus no
35	26.2	51.4	218935	2 AC102660	AC102660 Mus muscu
36	26.2	51.0	184541	2 AC118696	AC118696 Mus muscu
37	26	51.0	234681	2 AC095940	AC095940 Rattus no
38	25.8	50.6	559192	2 AC101314	AC101314 Mus muscu
39	25.8	50.6	220147	2 AC113524	AC113524 Mus muscu
40	25.6	50.2	91745	9 AC009297	AC009297 Homo sapi
41	25.6	50.2	100000	9 AP000010	AP000010 Homo sapi
42	25.6	50.2	100000	9 AP000151	AP000151 Homo sapi
43	25.6	50.2	102247	9 AP0001432	AP0001432 Homo sapi
44	25.6	50.2	227682	2 AC131460	AC131460 Rattus no
45	25.6	50.2	340000	9 AP001728	AP001728 Homo sapi

ALIGNMENTS

RESULT 1
LOCUS G15915
DEFINITION human STS CHLC.UTR.02819_M32315..r65016 clone UTR_02819_M32315,
sequence tagged site.
ACCESSION G15915
VERSION G15915.1 GI:1161804
KEYWORDS STS; STS sequence; primer; sequence tagged site.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 870)
Murray,J., Sheffield,V, Weber,J.L., Duyk,G. and Buetow,K.H.
Cooperative Human Linkage Center

JOURNAL
COMMENT Unpublished (1995)
Synonyms: UTR_02819_M32315, CHC.UTR_02819_M32315.T36190
Contact: Dr. Jeffrey C. Murray
UofI

The University of Iowa
Department of Pediatrics, Iowa City, IA 52242, USA
Tel: (319) 356-3508
Fax: (319) 356-3347
Email: jeff-murray@uiowa.edu

Primer A: CCCGACCTCTCTGACCTG
Primer B: GCTTCATGGGACTCAGG
STS size: 206
PCR Profile:

denature: 30 seconds at 94 degrees C
annealing: 75 seconds at 55 degrees C
extension: 15 seconds at 72 degrees C
PCR cycles: 27
extension: 6 minutes at 72 degrees C
Template: 30ng genomic DNA
Primer: each 1.5 pmole
dNTPs: each 200 uM
Taq Polymerase: 0.3 units
Total Vol: 10 uL

Buffer:

MgCl2: 1.5mM
KCl: 50mM
Tris: 10mM
pH: 8.3

FEATURES

Location/Qualifiers
1..870
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

STS

primer_bind

272..477
complement(458..477)

BASE COUNT

157 a 246 c 279 g 188 t

ORIGIN

Query Match

Best Local Similarity 100.0%; Score 51; DB 11; Length 870;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51

Db 175 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 225

RESULT 2

ARI52033

LOCUS ARI52033 2224 bp DNA linear PAT 08-AUG-2001

DEFINITION Sequence 2 from patent US 6232446.

ACCESSION ARI52033

VERSION ARI52033.1 GI:15119083

KEYWORDS

Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 2224)

AUTHORS Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.

TNF ligands

JOURNAL Patent: US 6232446-A 2 15-MAY-2001;

FEATURES 1..2224

source /organism="unknown"

BASE COUNT 435 a 698 c 689 g 402 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2224;
Best Local Similarity 100.0%; Pred. No. 9e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51

Db 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 3

AR308134

LOCUS AR308134 2224 bp mRNA linear PAT 12-JUN-2003

DEFINITION Sequence 1 from patent US 6555111.

ACCESSION AR308134

VERSION AR308134.1 GI:31699179

KEYWORDS

Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 2224)

AUTHORS Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.

TITLE Method of inhibiting the cytotoxic effect of TNF with TNF

JOURNAL receptor-specific antibodies

FEATURES Patent: US 6555111-A 1 29-APR-2003;

source 1..2224

/organism="unknown"

BASE COUNT

435 a 698 c 689 g 402 t

ORIGIN

Query Match

Best Local Similarity 100.0%; Score 51; DB 6; Length 2224;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51

Db 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 4

A78517

LOCUS A78517 2253 bp DNA linear PAT 19-OCT-1999

DEFINITION Sequence 1 from Patent EP0585939.

ACCESSION A78517

VERSION A78517.1 GI:6090179

KEYWORDS

Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 2253)

AUTHORS Mett,I. and Wallach,D.

TITLE TNF LIGANDS

JOURNAL Patent: EP 0585939-A 1 09-MAR-1994;

FEATURES YEDA RES & DEV (IL)

source 1..2253

/organism="unidentified"

/mol_type="genomic DNA"

/db_xref="taxon:32644"

90..1475

/note="unnamed protein product"

/codon_start=1

/protein_id="CAB58915.1"

/db_xref="GI:6090180"

/translation="MAPIAVALAALVGLIETLAAALPAQVAFPTPYAPDPSGTLRE

YDQTAQWCKSCSGQHAQVCTRTSTVDSCEDSYTYTLMMWVPCLSGSCSS

DOVERQACTRQNRICTRPGMYCALSOEGRCLCAPKRCRPGVAPRPTETSDV

CKPAPGFSNTSTSDICRPHOICNVYALPGASMDVACTSPTRSMAPGAYHLPO

PVSTRSCHOTPPRSTAPRSTAPRSTAPRSTAPRSTAPRSTAPRSTAPRSTAP

GVNCAVITQYKKKPLCIGRAKYPHLPADARATGQEQHLLITAPSSSSSLES

ASALDRAPTRNQPQAPGVEASGAGAASTGSSDSTGAGTGVNVCIVNCSSSD

HSQSSQASSTMDTDSPPSPSPDQVPPSKPCARFQLETPETLPGSTERKLP

LGVPDAGMKPS"

BASE COUNT 440 a 709 c 698 g 406 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2253;
Best Local Similarity 100.0%; Pred. No. 8.9e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCATGATGTGTCCCTT 51
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Db 1650 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCATGATGTGTCCCTT 1700
|||||

RESULT 5
HSTNFR2S10 2613 bp DNA linear PRI 31-JUL-1996
LOCUS Human tumor necrosis factor receptor 2 (TNFR2) gene, exon 10 and
DEFINITION complete cds.
ACCESSION U52165.1 GI:1469539
KEYWORDS
SEGMENT
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 2613)
AUTHORS Bellinger C.P., White P.S., Maris J.M., Sulman E.P., Jensen S.J.,
LePaslier D., Stallard B.J., Goeddel D.V., de Sauvage F.J. and
Brodeur G.M.
TITLE Physical mapping and genomic structure of the human TNFR2 gene
JOURNAL Genomics 35 (1), 94-100 (1996)
MEDLINE 96299745
PUBMED 8661109
2 (bases 1 to 2613)
AUTHORS Bellinger C.P., White P.S., Maris J.M., Sulman E.P., Jensen S.J.,
LePaslier D., Stallard B.J., Goeddel D.V., de Sauvage F.J. and
Brodeur G.M.
TITLE Direct Submission
JOURNAL Submitted (25-MAR-1996) Christian P. Bellinger, Division of
Oncology, ARC Rm. 902 D, Children's Hospital of Philadelphia, 324
South 34th Street, Philadelphia, PA 19104-4318, USA
LOCATION/Qualifiers
FEATURES SOURCE
1. 2613
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="1"
/map="JP36.2"
join(U52156.1:1..167,U52157.1:7..106,U52158.1:114..242,
U52159.1:7..156,U52160.1:7..100,U52161.1:95..330,
U52162.1:83..160,U52163.1:7..41,U52164.1:7..211,125..2613)
/product="tumor necrosis factor receptor"
join(U52156.1:90..167,U52157.1:7..106,U52158.1:114..242,
U52159.1:7..156,U52160.1:7..100,U52161.1:95..330,
U52162.1:83..160,U52163.1:7..41,U52164.1:7..211,125..405)
/codon_start=1
/product="tumor necrosis factor receptor"
/protein_id="AAC50622.1"
/db_xref="GI:1469541"
/translation="MAPVAVMAALAVGLELMAAALPAQVAFYPAPSPGSTRLE
YDDTAQMCSCSPGPAKVCCTSDTDCSDSTYTOLMNVPECLSGSCSS
DOVEAOACTREQRNICTCRPGWYCALSKQEGRLCAPRKCPGFGARPGETSDV
CKPAGTFSNTSTSDICRPHQICNVVAIPGNASMDAVCTSTPTSGMAGVAHLPO
PVTSGHOTPTPEPSTAPSTFILMGSPAPSGTGFALPGLIYGVATLGLIT
GVNVCVMTQYKKKPLCTOREKVPHLPADKARCTGCEQCHLITAPSSSSSSLES
ASALDRAPTRNQPPAPGVESGAEAASTSSSSPQSGHLLTVNCTIVNCCSSD
HSSQSSQASSTMGDTSSPSRSPDEVPSKBCARSOLEPETILGSTEKPLP
LGVPAGMKKPS"
join(U52157.1:7..112,U52158.1:1..248,U52159.1:1..200,
U52160.1:1..106,U52161.1:1..336,U52162.1:1..218,
U52163.1:1..58,U52164.1:1..234,1..2613)
/gene="TNFR2"
<1..124
Intron

exon
/gene="TNFR2"
/number=9
125..2613
/gene="TNFR2"
/number=10

BASE COUNT 553 a 750 c 742 g 568 t

ORIGIN

Query Match 100.0%; Score 51; DB 9; Length 2613;
Best Local Similarity 100.0%; Pred. No. 8.8e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCATGATGTGTCCCTT 51
|||||
Db 580 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCATGATGTGTCCCTT 630
|||||

RESULT 6
LOCUS G26865 3380 bp DNA linear STS 14-JUN-1996
DEFINITION human STS SHGC-11494, sequence tagged site.
ACCESSION G26865
VERSION G26865.1 GI:1375115
KEYWORDS STS; STS sequence; primer; sequence tagged site.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 3380)
AUTHORS Myers R.M.
JOURNAL Unpublished (1995)
COMMENT
Contact: Richard M. Myers
Stanford Human Genome Center (SHGC)
Stanford University School of Medicine
Department of Genetics, W-344, Stanford, CA 94305, USA
Tel: 4157259687
Fax: 4157259689
Email: myers@shgc.stanford.edu
Primer A: CCCACACACTAGACTCTGA
Primer B: CACAGAGTCAGGACTTGC
STS size: 201
PCR Profile:
Initial incubation: 94 degrees C for 90 seconds
Denaturation: 94 degrees C for 15 seconds
Annealing: 62 degrees C for 23 seconds
Polymerization: 72 degrees C for 30 seconds
PCR Cycles: 30
Thermal Cycler: Perkin Elmer 9600
Protocol:
Template: 25 ng
Primer: each 1 uM
dNTPs: each 200 uM
Tag Polymerase: 0.05 units/uL
Total Vol: 10 uL
Buffer:
MgCl2: 2.5 mM
KCl: 50 mM
Tris-HCl: 20 mM
pH: 8.3
Prepared with primer pairs provided by Sandoz, derived from M32315
-- Washington University/Merck EST sequence.
location/Qualifiers
1. 3380
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/map="1"
1561..1761
STS

primer_bind 1561. .1580
 primer_bind complement(1741. .1761)
 BASE COUNT 703 a 1029 c 1004 g 644 t
 ORIGIN

Query Match 100.0%; Score 51; DB 11; Length 3380;
 Best Local Similarity 100.0%; Pred. No. 8.7e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51
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 Db 1650 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 7
 AR215688
 LOCUS AR215688 3683 bp DNA linear PAT 25-SEP-2002
 DEFINITION Sequence 3 from patent US 6410324.
 ACCESSION AR215688
 VERSION AR215688.1 GI:23313944
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 3683)
 AUTHORS Bennett,C.F. and Watt,A.T.
 TITLE Antisense modulation of tumor necrosis factor receptor 2 expression
 JOURNAL Patent: US 6410324-A 3 25-SEP-2002;
 FEATURES
 source Location/Qualifiers
 1. 3683
 /organism="unknown"

BASE COUNT 781 a 1098 c 1086 g 718 t
 ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 8.6e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51
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 Db 1650 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 8
 AX333705
 LOCUS AX333705 3683 bp DNA linear PAT 09-JAN-2002
 DEFINITION Sequence 4214 from Patent WO0194629.
 ACCESSION AX333705
 VERSION AX333705.1 GI:18124424
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 REFERENCE 1
 AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
 Horigan,S., Soppet,D.R. and Weaver,Z.
 TITLE Cancer gene determination and therapeutic screening using signature
 JOURNAL Patent: WO 0194629-A 4214 13-DEC-2001;
 AVAton Pharmaceuticals (US)
 FEATURES
 source Location/Qualifiers
 1. 3683
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"

BASE COUNT 781 a 1098 c 1086 g 718 t
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Query Match 100.0%; Score 51; DB 6; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 8.6e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51
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 Db 1650 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 9
 AX348016
 LOCUS AX348016 3683 bp DNA linear PAT 06-FEB-2002
 DEFINITION Sequence 49 from Patent EP1172444.
 ACCESSION AX348016
 VERSION AX348016.1 GI:18614126
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 REFERENCE 1
 AUTHORS Schreiber,S., Hampe,J. and Mascheretti,S.
 TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr receptor II and method for detecting non-responders to anti-tnf therapy
 JOURNAL Patent: EP 1172444-A 49 16-JAN-2002;
 Conaris Research Institute GmbH (DE)
 FEATURES
 source Location/Qualifiers
 1. 3683
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 90. .1475
 /note="unnamed protein product"
 /codon_start=1
 /protein_id="CAD22795.1"
 /db_xref="GI:18614127"
 /translation="MAPVAVAAALAVGIELMAAAHALPAOVAFTPYAPDPSTCRLE
 YVDPAQCCCKSPGQAKYFCRTSTVDCSDSYTDLAMNVPCISCGSCSS
 DVEQATRTQNRNICTRPGWYCALSQBSCRCAKCRPGGVAPGRTSDV
 CKPAPGFTSNSTSDICRPHQICNVVAIPGASMDAVCTSTPTSMAPGAVLPO
 PVSTRSQHTOPTPEPSTAPSTFLPMGSPSPARESTDEPALPVGLIVGVALGLII
 GVNVGVINTQVKKKRCICREAKVPHLPADARAGTQGEQOHLITAPSSSSSLESS
 ASALDRPATRNQAPRGVEASGAEARASTGSSDSPGCHGTQVNTVCIVNCSSSD
 HSSGCSQASSTMGDTDSSPSRDEQVPSKECAPRSOLEPFTLLGSTEKPLP
 LGVPDAGMKPS"

CDS

mat.peptide 781 a 1098 c 1086 g 718 t
 BASE COUNT 781 a 1098 c 1086 g 718 t
 ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 8.6e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51
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 Db 1650 AGCAGAGGAGGAGGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 10
 AX348018
 LOCUS AX348018 3683 bp DNA linear PAT 06-FEB-2002
 DEFINITION Sequence 51 from Patent EP1172444.
 ACCESSION AX348018
 VERSION AX348018.1 GI:18614128
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 REFERENCE 1
 AUTHORS Schreiber,S., Hampe,J. and Mascheretti,S.
 TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr receptor II and method for detecting non-responders to anti-tnf therapy
 JOURNAL Patent: EP 1172444-A 51 16-JAN-2002;
 Conaris Research Institute GmbH (DE)

FEATURES
source
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
90..1475
/note="unnamed protein product"
/codon_start=1
/protein_id="CAD22796.1"
/db_xref="GI:18614129"
/translation="MAPVAVMAALAVGLLEMAAALPAOVAFTPYAPPEPGSTCLRL
YVDOTAMCCSKSPGQHAQVCTSTSDYCDSDSTYDOLMNVPECLSGSRCS
DOVETQACTREONRICTCRPHQICNVVAIFGNASMDVAVCTSTPTSMARQAVHLPQ
CKPCAPGTFSTSTSDICRPHQICNVVAIFGNASMDVAVCTSTPTSMARQAVHLPQ
PVSTRSGHTPTPEPSTAPSTFLPMGSPPAESGTDPAFVGLIVGVALGLLII
GVNVCVIMTVQKKKPLCLQREAKVPHLPADKARCTQGEQOHLITAPSSSSSISS
ASALDRAPTRNOPOAPGVASGAEARASTGSSDPSGGGTQVNVTCIVNVCSSSD
HSSCCSOASTMDTDSPPSPKQVPSKRCARSQLETPETLLGSTEKPLP
LGVPDAMKPS"

mat.peptide 780 a 1098 c 1087 g 718 t
BASE COUNT
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 8.6e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTTGCCCTCT 51
Db 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTTGCCCTCT 1700

RESULT 11
AX348020 3683 bp DNA linear PAT 06-FEB-2002
LOCUS
DEFINITION Sequence 53 from Patent EP1172444.
ACCESSION AX348020
VERSION AX348020.1 GI:18614130
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS 1
TITLE Schreiber,S., Hampe,J. and Mascheretti,S.
Diagnosis use of polymorphisms in the gene coding for the tnfr
receptor II and method for detecting non-responders to anti-tnf
therapy
JOURNAL Patent: EP 1172444-A 53 16-JAN-2002;
Conaris Research Institute GmbH (DE)
FEATURES
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PVSTRSGHTPTPEPSTAPSTFLPMGSPPAESGTDPAFVGLIVGVALGLLII
GVNVCVIMTVQKKKPLCLQREAKVPHLPADKARCTQGEQOHLITAPSSSSSISS
ASALDRAPTRNOPOAPGVASGAEARASTGSSDPSGGGTQVNVTCIVNVCSSSD
HSSCCSOASTMDTDSPPSPKQVPSKRCARSQLETPETLLGSTEKPLP
LGVPDAMKPS"

mat.peptide 780 a 1098 c 1088 g 717 t
BASE COUNT
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 8.6e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTTGCCCTCT 51
Db 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTTGCCCTCT 1700

RESULT 12
AX698020 3683 bp DNA linear PAT 02-APR-2003
LOCUS
DEFINITION Sequence 1 from Patent WO03009864.
ACCESSION AX698020
VERSION AX698020.1 GI:29499058
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS 1
TITLE Lucas,J., Dialynas,D., Briggs,K. and Scallia,A.
Agonists and antagonists of discomet for the treatment of metabolic
disorders
JOURNAL Patent: WO 03009864-A 1 06-FEB-2003;
GENSET SA (FR)
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5'UTR
CDS
3'UTR
polyA signal
BASE COUNT 781 a 1098 c 1086 g 718 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 8.6e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTTGCCCTCT 51
Db 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTTGCCCTCT 1700

RESULT 13
HUMNR 3683 bp mRNA linear PRI 07-JAN-1995
LOCUS
DEFINITION Human tumor necrosis factor receptor mRNA, complete cds.
ACCESSION M32315
VERSION M32315.1 GI:189185
KEYWORDS c-myc proto-oncogene; necrosis factor receptor.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS 1 (bases 1 to 3683)
Smith,C.A., Davis,T., Anderson,D., Solam,L., Beckmann,M.P.,

TITLE Jersey, R., Dower, S.K., Cosman, D. and Goodwin, R.G.
A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins
JOURNAL Science 248 (4958), 1019-1023 (1990)
MEDLINE 90260639
PMID 2160731
COMMENT Original source text: Homo sapiens lung CDNA to mRNA. Draft entry and computer-readable sequence for [1] kindly submitted by C.A. Smith, 30-MAR-1990, for release after publication.

FEATURES
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BASE COUNT 781 a 1098 c 1086 g 718 t

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Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGATTGGGAGAAAGCCTCTGCTGCCATGCTGTCTCT 51
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1650 AGCAGAGCAGCAGATTGGGAGAAAGCCTCTGCTGCCATGCTGTCTCT 1700

Db 1650 AGCAGAGCAGCAGATTGGGAGAAAGCCTCTGCTGCCATGCTGTCTCT 1700

RESULT 14 BC042167 2282 bp mRNA linear PRI 09-JUN-2003
LOCUS BC042167
DEFINITION Homo sapiens, similar to tumor necrosis factor receptor superfamily, member 1B, clone IMAGE:5022068, mRNA, partial cds.
ACCESSION BC042167
VERSION BC042167.1 GI:27503828
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 2282)
Straussberg, R.
Direct Submission
Submitted (02-JUN-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabbs@mail.nih.gov

REMARK
COMMENT

Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: National Institutes of Health Intramural Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>
Contact: nisc.mgc@nih.gov
Ahter, N., Ayala, K., Beckstrom-Sternberg, S.M., Benjamin, B., Blakeley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S., Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Haghighi, P., Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legaspi, R., Masuro, O.L., Masello, C., Maekel, B., Mastrian, S.D., McCloskey, J.C., McDowell, J., Pearson, R., Stantirpop, S., Thomas, P.J., Touchman, J.W., Tsurgoun, C., Vogt, J.L., Walker, M.A., Weherby, K.D., Wiggins, L., Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>
Series: IRAL Plate: 44 Row: h Column: 16
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 23312365.
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DRAPTRNPOAPGVEASGAEARASTSSSDSGHGTQVATCI VVNCSSD
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459 a 706 c 708 g 409 t

BASE COUNT 459 a 706 c 708 g 409 t

ORIGIN

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Best Local Similarity 98.0%; Pred. No. 3.7e-08;
Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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1550 AGCAGAGCAGCAGATTGGGAGAAAGCCTCTGCTGCCATGCTGTCTCT 1600

Db 1550 AGCAGAGCAGCAGATTGGGAGAAAGCCTCTGCTGCCATGCTGTCTCT 1600

RESULT 15 BC052977 3692 bp mRNA linear PRI 09-JUN-2003
LOCUS BC052977
DEFINITION Homo sapiens tumor necrosis factor receptor superfamily, member 1B, mRNA (cdna clone MGC:60023 IMAGE:6198614), complete cds.
ACCESSION BC052977
VERSION BC052977.1 GI:31419789
KEYWORDS
SOURCE MGC.
ORGANISM Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 3692)
Straussberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,

REMARK
COMMENT

TITLE
JOURNAL
MEDLINE
PUBMED
22388257
REFERENCE
AUTHORS
TITLE
JOURNAL

REMARK
COMMENT

NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupski
CDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-shgc.stanford.edu>
Contact: (Dickson, Mark) mdcpax1.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILNLT at: <http://image.llnl.gov>
Series: IRAK Plate: 110 Row: n Column: 2
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 23312365.

FEATURES

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/lab_host="DH10B"

/note="vector: pCMV-SPORT6"

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1..3692

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/note="synonyms: CD120b, TNF-R-II, TNFR, TNFR2, TNFR80, p75TNFR, TBP11, TNF-R75, p75"

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CDS

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LGVDAGMKRS"

BASE COUNT 791 a 1098 c 1085 g 718 t
ORIGIN

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Best Local Similarity 98.0%; Pred. No. 3.6e-08;
Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGCAGAGGACGAGATTGGGAAAGCCTCTGCTGCATGTGTGTCTCTT 51
Db 1648 AGCAGAGGACGAGATTGTGAAAGCCTCTGCTGCATGTGTGTCTCTT 1698

Search completed: December 16, 2003, 18:41:37
Job time : 1225 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 17:58:55 ; Search time 1348 Seconds
(without alignments)
919.531 Million cell updates/sec

Title: US-09-856-937A-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcagcagcagctggg.....ctgccatgctgtccctct 51

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

EST:
1: em_escba:*
2: em_escbm:*
3: em_escin:*
4: em_escmu:*
5: em_escro:*
6: em_escpl:*
7: em_escro:*
8: em_escro:*
9: gb_esc1:*
10: gb_esc2:*
11: gb_esc3:*
12: gb_esc3:*
13: gb_esc4:*
14: gb_esc5:*
15: em_escfun:*
16: em_escfun:*
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27: em_escfun:*
28: gb_esc1:*
29: gb_esc2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	49.4	96.9	372	9	AA031826
2	49.4	96.9	735	14	CA426262
3	49.4	96.9	2291	11	BC011844
4	47.8	93.7	760	12	BI161017

5	47.8	93.7	932	12	EG829828
6	47.8	93.7	974	10	BG745202
7	47.8	93.7	1051	10	BF568409
8	47.8	93.7	1053	12	BQ052282
9	47.8	93.7	1102	12	BM917316
10	35.2	69.0	1183	10	BF569011
11	31.8	62.4	472	9	AV746487
12	28.6	56.1	945	13	BX327945
13	26.8	52.5	175	9	AM176594
14	26.8	52.5	175	9	AM062603
15	26.8	52.5	689	28	BZ092262
16	26.6	52.2	765	12	B1102359
17	26.6	52.2	794	10	BF540303
18	26.4	51.8	368	13	BY500376
19	26.4	51.8	431	13	BY501435
20	26.4	51.8	446	13	BY474057
21	26.4	51.8	478	10	BB781904
22	26.4	51.8	685	10	BG077751
23	26.4	51.8	1066	10	BF568708
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25	26.4	51.0	428	13	BY432020
26	26.4	51.0	880	13	BU176729
27	25.6	50.2	383	13	BY007173
28	25.6	50.2	562	28	AQ470055
29	25.4	49.8	355	13	BY397944
30	25.4	49.8	377	10	AW938801
31	25.4	49.8	400	13	BY404734
32	25.4	49.0	337	9	AM801622
33	25.4	49.0	369	12	BM448184
34	25.4	49.0	413	12	BM780538
35	25.4	49.0	439	13	BY432386
36	25.4	49.0	475	10	BB759149
37	25.4	49.0	533	9	AI155645
38	25.4	49.0	728	28	BH898693
39	25.4	49.0	845	12	B1160187
40	24.8	48.6	203	9	AA795560
41	24.8	48.6	318	9	AA959223
42	24.8	48.6	323	9	AA218140
43	24.8	48.6	346	10	BF771882
44	24.8	48.6	347	9	AI840820
45	24.8	48.6	351	14	WI6081

ALIGNMENTS

RESULT 1
LOCUS AA031826 372 bp mRNA linear EST 09-MAY-1997
DEFINITION zkl4b1.r1 Soares pregnant uterus NBHPU Homo sapiens cDNA clone IMAGE:470493 5' similar to gb:M3315 Tumor NECROSIS FACTOR RECEPTOR 2 PRECURSOR (HUMAN); contains element PTRS repetitive element ;
mRNA sequence.

ACCESSION AA031826
VERSION AA031826.1 GI:1501789
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 372)
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chappell, B., Chisoso, S., Dietrich, N., Dubuque, T., Favell, A., Gish, W., Hawkins, M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Marz, B., Moore, B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfs, T., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Tsvetkov, E., Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M., Generation and analysis of 280,000 human expressed sequence tags

TITLE JOURNAL
MEDLINE 97044478
PUBMED 8889549

COMMENT CONTACT: Wilson RK
Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through INTL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert length: 849 Std Error: 0.00
Seq primer: -28M13 rev2 from Amersham
High quality sequence: 362.
Location/Qualifiers
1..372

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Site 2: Eco RI; 1st strand cDNA was primed with a Not I -
oligo(dT) primer 5',
AAGCGAGAGAAATTCGCGCCGCGCTTTTCTTTTCTTTT 3',
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified p773 vector. Library
was through one round of normalization. Library
constructed by M. Fatima Bonafide."

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Query Match	96.9%	Score 49.4	DB 9	Length 372
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		Mismatches	1	Gaps 0
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Db	118	AGCAAGGACGACGAGTTGTGGAAGACCTCTGCTGCCATGTCGTGTCCTCT	168	

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DEFINITION	UI-H-DP0-bek-n-21-0-U1_g1 NCI CGAP DRP Homo sapiens cDNA clone UI-H-DP0-bek-n-21-0-U1_3', mRNA sequence.
ACCESSION	C9426262
VERSION	C9426262.1 GI:24788988
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (baaes 1 to 735) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap .
AUTHORS	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
TITLE	Unpublished
JOURNAL	Contact: Robert Strausberg, Ph.D.
COMMENT	

```

Tissue Procurement: Dr. Jose Mercende
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained
from Dr. M. Bento Soares, bento-soares@iowa.edu
The following repetitive elements were found in this cDNA
sequence: 11-300, >ALU (matched complement) 539-573, >(CANA
)n$1mple, repeat
Seq primer: M13 FORWARD
POLYA=yes.
Location/Qualifiers
1..735
FEATURES
source

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/name="Organ: Bone; Vector: pT73-Pac (Pharmacia) with a modified polylinker; Site 1: Ecor I; Site 2: Not I; NCI CGAP DFO is a cDNA library containing the following tissue(s): Subchondral Bone. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an Ecor I adaptor, digested with Not I, and cloned directionally into pT73-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GTTAAAGCTC.
TAG LIB=U1-H-DFO
TAG TISSUE=subchondral bone
TAG_SEQ=GTTAAAGCTC"

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Query Match	96.9%	Score	49.4	DB	14	Length	735
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						Gaps	0

Oy	1	AGCAGAGGCGACGCGAGTGTGGGAAAGCCTCTGCTGCTGCCATGTGTGTCTCCTCT	51
		AGCAGAGGCGCGCGAGTGTGGAAGCCTCTGCTGCTGCCATGTGTGTCTCCTCT	665
Ob	735	AGCAGAGGCGCGCGAGTGTGGAAGCCTCTGCTGCTGCCATGTGTGTCTCCTCT	665

RESULT 3	
BC011844	
LOCUS	BC011844 2291 bp mRNA linear HTC 04-MAR-2003
DEFINITION	Homo sapiens, similar to tumor necrosis factor receptor superfamily, member 1B, clone IMAGE:4111730, mRNA.
ACCESSION	BC011844
VERSION	BC011844.1 GI:15080140
KEYWORDS	HTC.
SOURCE	Homo sapiens (human)
ORGANISM	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE	1 (bases 1 to 2291) Straubeberg,R. Direct Submission Submitted (30-JUL-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
REMARK	NIH-MGC Project URI: http://mgc.nci.nih.gov
COMMENT	Contact: MGC help desk.

Tissue Procurement: ATCC
cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>
Contact: nisc.mcgc@nih.gov
Akhter, N., Ayale, K., Beckstrom-Sternberg, S.M., Benjamin, B.,
Blakesley, R., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S.,
Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Hachiguchi, P.,
Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legaspi, R.,
Maduro, O.L., Masello, C., Makioti, B., Mastrian, S.D., McCloskey, J.C.,
McDowell, J., Pearson, R., Stantirip, S., Thomas, P.J., Touchman, J.W.,
Turgeon, C., Vogt, J.L., Walker, M.A., Wetherby, K.D., Wiggin, L.,

Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IRL Plate: 28 Row: 1 Column: 15
This clone has the following problem: retained intron.

FEATURES

source location/Qualifiers

1..2291
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4111730"
/issue_type="Muscle, rhadomyosarcoma"
/clone_1ib="NIH_MGC_17"
/lab_host="DH10B-R"
/note="Vector: POTB7"

BASE COUNT 461 a 708 c 713 g 409 t

ORIGIN

Query Match 96.9%; Score 49.4; DB 11; Length 2291;
Best Local Similarity 98.0%; Pred. No. 8.9e-06;
Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTCCTCT 51
|||||
Db 1559 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTCCTCT 1609

RESULT 4

LOCUS B161017 760 bp mRNA linear EST 05-JUL-2001

DEFINITION 60285227P1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:5019247 5',
mRNA sequence.

ACCESSION

VERSION

B161017.1 GI:14621018

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

1 (bases 1 to 760)

AUTHORS

NIH-MGC <http://mgs.nci.nih.gov/>.

TITLE

National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL

Unpublished

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

Plate: L10CM1834 row: e column: 08

High quality sequence stop: 723.

FEATURES

source

1..760
/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5019247"

/issue_type="epithelioid carcinoma cell line"

/lab_host="DH10B (phage-resistant)"

/clone_1ib="NIH_MGC_42"

/note="Organ: pancreas; Vector: POTB7; Site: 1: XhoI;

Site: 2: EcoRI; CDNA made by oligo-dT priming.

Directionally cloned into EcoRI/XhoI sites using the

following 5' adaptor: GGCACGAG(G). Size-selected >500bp

for average insert size 1.8kb. Library constructed by Ling

Hong in the laboratory of Gerald M. Rubin (University of

California, Berkeley) using ZAP-cDNA synthesis kit

(Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH_MGC Library. |"

BASE COUNT 143 a 248 c 245 g 124 t

ORIGIN

Query Match 93.7%; Score 47.8; DB 12; Length 760;
Best Local Similarity 96.1%; Pred. No. 1.9e-05;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

FEATURES

source location/Qualifiers

Qy 1 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTCCTCT 51
|||||
Db 671 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTCCTCT 721

RESULT 5

LOCUS BG829828 932 bp mRNA linear EST 22-MAY-2001

DEFINITION 60276411P1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:4899436 5',
mRNA sequence.

ACCESSION

VERSION

BG829828.1 GI:14177415

KEYWORDS

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

1 (bases 1 to 932)

AUTHORS

NIH-MGC <http://mgs.nci.nih.gov/>.

TITLE

National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

Plate: L10CM1791 row: e column: 05

High quality sequence stop: 833.

FEATURES

source

1..932
/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4899436"

/issue_type="epithelioid carcinoma cell line"

/lab_host="DH10B (phage-resistant)"

/clone_1ib="NIH_MGC_42"

/note="Organ: pancreas; Vector: POTB7; Site: 1: XhoI;

Site: 2: EcoRI; CDNA made by oligo-dT priming.

Directionally cloned into EcoRI/XhoI sites using the

following 5' adaptor: GGCACGAG(G). Size-selected >500bp

for average insert size 1.8kb. Library constructed by Ling

Hong in the laboratory of Gerald M. Rubin (University of

California, Berkeley) using ZAP-cDNA synthesis kit

(Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH_MGC Library. |"

BASE COUNT

162 a 296 c 296 g 177 t

ORIGIN

Query Match 93.7%; Score 47.8; DB 12; Length 932;
Best Local Similarity 96.1%; Pred. No. 2.1e-05;

Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

FEATURES

source location/Qualifiers

Qy 1 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTCCTCT 51
|||||

Db 672 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTCCTCT 722

RESULT 6

LOCUS BG745202 974 bp mRNA linear EST 15-MAY-2001

DEFINITION 60272353P1 NIH_MGC_113 Homo sapiens CDNA clone IMAGE:4850143 5',

RNA sequence.
 BG745202
 EST. 1 (bases 1 to 974)
 Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Mark Watson
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Plate: L1CM1690 row: 0 column: 08
 High quality sequence stop: 420.
 Location/Qualifiers
 1..974
 /organism="Homo sapiens"
 /mol_type="rRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4850143"
 /lab_host="NIH_MGC_113"
 /note="Organ: Spleen; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; CDNA made by oligo-dt priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGCAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC Library."

BASE COUNT
 301 a 245 c 285 g 143 t

ORIGIN

Query Match
 Best Local Similarity 96.1%; Score 47.8; DB 10; Length 974;
 Pred. No. 2.1e-05;
 Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db
 1 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 51
 |||||
 14 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 64

RESULT 7
 BF568409 1051 bp mRNA linear EST 12-DEC-2000
 LOCUS 602184408F1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:4300633 5',
 mRNA sequence.
 BF568409
 VERSION BF568409.1 GI:11641789
 EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.

REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Plate: L1CM1159 row: 0 column: 02
 High quality sequence stop: 769.
 Location/Qualifiers
 1..1051
 /organism="Homo sapiens"
 /mol_type="rRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4300633"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_1ib="NIH_MGC_42"
 /note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; CDNA made by oligo-dt priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGCAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

BASE COUNT
 229 a 313 c 346 g 161 t

ORIGIN

Query Match
 Best Local Similarity 96.1%; Score 47.8; DB 10; Length 1051;
 Pred. No. 2.2e-05;
 Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db
 1 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 51
 |||||
 671 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 721

RESULT 8
 BQ052282 1053 bp mRNA linear EST 29-MAR-2002
 LOCUS BQ052282/c
 DEFINITION AGENCOURT 6868457 NIH_MGC_106 Homo sapiens CDNA clone IMAGE:5933514
 5', mRNA sequence.
 BQ052282
 VERSION BQ052282.1 GI:19811622
 EST.
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
 CDNA Library Preparation: Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Plate: L1CM2118 row: c column: 16
 High quality sequence stop: 649.
 Location/Qualifiers
 1..1053
 /organism="Homo sapiens"
 /mol_type="rRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5933511"
 /tissue_type="natural killer cells, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_1ib="NIH_MGC_106"
 /note="Organ: blood; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; CDNA made by oligo-dt priming. Directionally cloned

REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT

into ECORI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH-MGC library."

BASE COUNT 216 a 328 c 287 g 212 t

Query Match 93.7%; Score 47.8; DB 12; Length 1053;
Best Local Similarity 96.1%; Pred. No. 2.2e-05;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGCTGGGAAAGCCTTCTGCTCCATGCTGTGTCCTCT 51
|||||
745 AGCAGAGGCGAGCTGGGAAAGCCTTCTGCTCCATGCTGTGTCCTCT 695

RESULT 9
BM917316

LOCUS BM917316 1102 bp mRNA linear EST 12-MAR-2002
DEFINITION AGENCOURT 6606593 NIH_MGC_106 Homo sapiens CDNA clone IMAGE:5483819
5', mRNA sequence.

ACCESSION BM917316
VERSION BM917316.1 GI:19367695
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1102)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Tissue Procurement: Dr. Daniel McVicar, DBS/NCI

CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM2012 row: b column: 12
High quality sequence stop: 507.

FEATURES
SOURCE Location/Qualifiers
1..1102

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5483819"
/tissue_type="natural killer cells, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_id="NIH_MGC_106"
/note="Organ: blood; Vector: pOTB7; Site 1: XhoI; Site 2:
ECORI; CDNA made by oligo-dT priming. Directionally cloned
into ECORI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH-MGC library."
BASE COUNT 219 a 366 c 292 g 222 t 3 others
ORIGIN

Query Match 93.7%; Score 47.8; DB 12; Length 1102;
Best Local Similarity 96.1%; Pred. No. 2.2e-05;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGCTGGGAAAGCCTTCTGCTCCATGCTGTGTCCTCT 51
|||||
172 AGCAGAGGCGAGCTGGGAAAGCCTTCTGCTCCATGCTGTGTCCTCT 222

RESULT 10
LOCUS BF569011/c 1183 bp mRNA linear EST 12-DEC-2000
DEFINITION 60218435371 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:4300500 3',
mRNA sequence.

ACCESSION BF569011
VERSION BF569011.1 GI:11642391
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1183)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM1159 row: 1 column: 13
High quality sequence stop: 716.

FEATURES
SOURCE Location/Qualifiers
1..1183

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4300500"
/tissue_type="epithelioid carcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_id="NIH_MGC_42"
/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
Site 2: ECORI; CDNA made by oligo-dT priming.
Directionally cloned into ECORI/XhoI sites using the
following 5' adaptor: GGCAGCAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the Laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC library."
BASE COUNT 308 a 357 c 348 g 170 t
ORIGIN

Query Match 69.0%; Score 35.2; DB 10; Length 1183;
Best Local Similarity 92.3%; Pred. No. 0.31;
Matches 48; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 AGCAGAGGCGAGCTGGGAAAGCCTTCTGCTCCATGCTGTGTCCTCT 51
|||||
669 AGCAGAGGCGAGCTGGGAAAGCCTTCTGCTCCATGCTGTGTCCTCT 618

RESULT 11
LOCUS AV746487 472 bp mRNA linear EST 19-OCT-2000
DEFINITION AV746487 NPC Homo sapiens CDNA clone NPCAM05 5', mRNA sequence.
ACCESSION AV746487
VERSION AV746487.1 GI:10904335
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 472)
AUTHORS Song,H., Peng,Y., Gu,Y., Yang,Y., Gao,G., Xiao,H., Xu,X., Li,N.,
Qian,B., Liu,F., Qu,J., Gao,X., Cheng,Z., Xu,Z., Zeng,L., Xu,S., Gu
,W., Tu,Y., Jia,J., Fu,G., Ren,S., Zhong,M., Lu,G., Ye,M., Zhang,Q.

LOCUS AM062603 175 bp mRNA linear EST 06-OCT-1999
 DEFINITION RC0-CT0088-050899-001-B07 CT0088 Homo sapiens CDNA, mRNA sequence.
 ACCESSION AM062603
 VERSION AM062603.1 GI:6013988
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 175)
 HCCP <http://www.judwig.org.br/ORESTES>.
 The FAPESP/LICR Human Cancer Genome Project
 Unpublished
 CONTACT: Simpson A.J.G.
 Laboratory of Cancer Genetics
 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
 Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: asimpson@judwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome
 Project. This entry can be seen in the following URL
 (<http://www.judwig.org.br/scripts/gethtml2.pl?cl=kt2=RC0-CT0088-050899-001-B07&cs=1999-08-05&ct=4=1>)
 Seq primer: puc 18 forward
 High quality sequence stop: 21
 High quality sequence stop: 175.
 Location/Qualifiers
 1..175
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /dev_stage="Adult"
 /clone_lib="CT0088"
 /note="Organ: colon; Vector: pUC18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196 716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
 BASE COUNT 32 a 65 c 46 g 32 t
 ORIGIN
 Query Match 52.5%; Score 26.8; DB 9; Length 175;
 Best Local Similarity 93.3%; Pred. No. 84;
 Matches 28; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCT 30
 |||||
 DB 146 AGCAGAGGACGAGGAGTTGGGAAAGCCTCT 175
 |||||
 RESULT 15
 BZ092262 689 bp DNA linear GSS 10-OCT-2002
 LOCUS CH230-232B6.TV CHORI-230 Segment 1 Rattus norvegicus genomic clone
 DEFINITION CH230-232B6, genomic survey sequence.
 ACCESSION BZ092262
 VERSION BZ092262.1 GI:23730376
 KEYWORDS GSS.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.
 1 (bases 1 to 689)
 Zhao, S., Shetty, J., Shatsman, S., Tseng, G., Geer, K., Shvartsbeyn,
 A., Gebregorgis, E., Overton, L., Russell, D., Chen, D., Riggs, F., de
 Jong, P. and Fraser, C.M.
 TITLE Rat BAC End Sequences from Library CHORI-230 EcORI segment
 JOURNAL Unpublished

COMMENT Other GSSs: CH230-232B6.TV
 Contact: Shaying Zhao
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230
 (<http://www.chori.org/bacpac/rat30.htm>). For BAC library
 availability, please contact Pierer de Jong (pdjong@mail.cho.org).
 Clones may be purchased from BACPAC Resources
 (http://www.chori.org/bacpac/orering_information.htm). BAC end
 pages: http://www.tigr.org/tdb/bac_ends/rat/bac_end_intro.html
 Plate: 232 row: B column: 6
 Seg primer: T7
 Class: BAC ends.
 Location/Qualifiers
 1..689
 /organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /strain="BN/SaNHsd/MCW"
 /db_xref="taxon:10116"
 /clone="CH230-232B6"
 /sex="Female"
 /cell_type="Brain"
 /clone_lib="CHORI-230 Segment 1"
 /note="Vector: pTARBAC2.1; Site 1: EcORI; Site 2: EcORI;
 CHORI-230 Rat (BN/SaNHsd/MCW) BAC library produced by
 Pierer de Jong"
 BASE COUNT 211 a 159 c 128 g 191 t
 ORIGIN
 Query Match 52.5%; Score 26.8; DB 28; Length 689;
 Best Local Similarity 73.9%; Pred. No. 1.4e+02;
 Matches 34; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 QY 1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCCATGATGTC 46
 |||||
 DB 140 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCCATGATGTC 185
 |||||
 Search completed: December 16, 2003, 19:04:16
 Job time: 1356 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 15:51:34 ; Search time 147 Seconds
(without alignments)
936,540 Million cell updates/sec

Title: US-09-856-937A-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcagcagcagtcg93.....ctgcacatgctgctccctct 51

Scoring table:
IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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23: /SIDSI1/gcgdata/geneseq/geneq-n-emb1/NA2002.DAT:*

24: /SIDSI1/gcgdata/geneseq/geneq-n-emb1/NA2003.DAT:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	2224	16	AAQ89544
2	51	100.0	2613	21	AAA49207
3	51	100.0	2613	24	ABZ35564
4	51	100.0	3683	24	ABZ34910
5	51	100.0	3683	24	ABO74753
6	51	100.0	3683	24	ABK83997
7	51	100.0	3683	24	ABL65877
8	51	100.0	3683	24	ABK33465

9	51	100.0	3683	24	ABK33466
10	51	100.0	3683	24	ABK33467
11	50.6	99.2	201	19	AAK12093
12	47.8	93.7	2339	12	AAQ10956
13	47.8	93.7	2339	20	AAZ09171
14	47.8	93.7	2339	22	AAH48860
15	47.8	93.7	2393	12	AAQ10907
16	47.8	93.7	2394	22	AAC63951
17	47.8	93.7	15602	24	ABO74767
18	42.4	83.1	51	22	AAI29880
19	25.6	50.2	31	20	AAQ6309
20	25.6	50.2	84	22	ABA50204
21	25.6	50.2	84	22	ABA68144
22	25.6	50.2	84	22	ABA51562
23	25.6	50.2	84	22	AAK16524
24	25.6	50.2	84	22	AAK42280
25	25.6	50.2	84	22	AAI23051
26	25.6	50.2	84	22	AAI48356
27	25.6	50.2	84	22	AAI08708
28	25.6	50.2	84	22	ABS41888
29	25.6	50.2	84	24	ABS16331
30	25.6	50.2	416	22	ABA45067
31	25.6	50.2	416	22	ABA55546
32	25.6	50.2	416	22	ABA52550
33	25.6	50.2	416	22	AAK03772
34	25.6	50.2	416	22	AAK29240
35	25.6	50.2	416	22	AAI13833
36	25.6	50.2	416	22	AAI35197
37	25.6	50.2	416	22	AAI03704
38	25.6	50.2	416	23	ABS28859
39	25.6	50.2	416	24	ABS03794
40	25.6	50.2	464	22	ABA43185
41	25.6	50.2	464	22	ABA53605
42	25.6	50.2	464	22	ABA23360
43	25.6	50.2	464	22	AAK01871
44	25.6	50.2	464	22	AAK27328
45	25.6	50.2	464	22	AAI11902

ALIGNMENTS

RESULT 1
AAQ89544 standard; DNA; 2224 BP.

AC AAQ89544;
XX 25-MAR-2003 (updated)
DT 31-OCT-1995 (first entry)
XX p75 Tumour Necrosis Factor Receptor.

DE
XX Liqand; tumour necrosis factor; nerve growth factor; TNF; NGF;
KW receptor; ss..
XX
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS
FT /tag= a
FT /product= p75 TNF receptor.
FT /tag= b
FT /transl_except= GCA encodes Glycine.
FT /tag= c
FT /transl_except= CCA encodes Alanine.
FT /tag= d
FT /transl_except= GTG encodes Glutamic acid.
FT misc_difference 1149..1151
FT /tag= e

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FT      /cranal_except= GAG encodes Alanine.
PT      1152..1154
PT      /*tag= f
FT      /cranal_except= GCC encodes Arginine.
FT      1155..1157
FT      /*tag= g
FT      /cranal_except= AGT encodes Alanine.
FT      1158..1160
FT      /*tag= h
FT      /cranal_except= GGG encodes Serine.
FT      1161..1163
FT      /*tag= i
FT      /cranal_except= GCC encodes Threonine.
FT      1167..1169
FT      /*tag= j
FT      /cranal_except= GAG encodes Serine.
FT      1170..1172
FT      /*tag= k
FT      /cranal_except= GCC encodes Serine.
FT      1173..1175
FT      /*tag= l
FT      /cranal_except= CGG encodes Aspartic acid.
FT      1176..1178
FT      /*tag= m
FT      /cranal_except= GCC encodes Serine.
FT      1182..1184
FT      /*tag= n
FT      /cranal_except= ACC encodes Proline.
FT      1188..1190
FT      /*tag= o
FT      /cranal_except= AGC encodes Glycine.
FT      1191..1193
FT      /*tag= p
FT      /cranal_except= TCA encodes Histidine.
FT      1194..1196
FT      /*tag= q
FT      /cranal_except= GAT encodes Glycine.
FT      1197..1199
FT      /*tag= r
FT      /cranal_except= TCT encodes Threonine.
FT      2000..2002
FT      /*tag= s
FT      /cranal_except= TCC encodes Glutamine.
FT      2003..2005
FT      /*tag= t
FT      /cranal_except= CCT encodes Alanine.
FT      2006..2008
FT      /*tag= u
FT      /cranal_except= GGT encodes Proline.
FT      2012..2014
FT      /*tag= v
FT      /cranal_except= CAT encodes Valine.
FT      2015..2016
FT      /*tag= w
FT      /cranal_except= GGG encodes Glutamic acid.
FT      2017..2018
FT      /*tag= x
FT      /cranal_except= ACC encodes Alanine.
FT      2019..2021
FT      /*tag= y
FT      /cranal_except= CAG encodes Serine.
XX      EP648783-A1.
XX
XX      19-APR-1995.
XX
XX      11-OCT-1994; 94EP-0116015.
XX
XX      12-OCT-1993; 93IL-0107267.
XX
XX      (YEDA ) YEDA RES & DEV CO LTD.
XX      (WALL/) WALLACH D.
XX

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PI      Beletsky I, Bigda J, Mett I, Wallach D;
XX      WPI: 1995-148673/20.
DR      P-PSDB; AAR72504.
XX
XX      Tumour necrosis factor (TNF) receptor ligand - used to increase
PT      inhibitory effect of a soluble TNF receptor
XX
XX      Disclosure; Figure 2; 18pp; English.
XX
XX      A ligand to a member of the tumour necrosis factor (TNF)/nerve
CC      growth factor (NGF) receptor family which binds either to the region
CC      of the 4th-Cys rich domain of the receptor, or to the region between
CC      it and the cell membrane may be used in the production of a
CC      pharmaceutical composition for increasing the inhibitory effect of a
CC      soluble receptor of the TNF/NGF receptor family. This sequence
CC      encodes the p75 TNF receptor. N in the sequence represents an
CC      unidentified nucleotide (poor reproduction in specification).
CC      (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ      Sequence 2224 BP; 432 A; 697 C; 688 G; 400 T; 7 other;
XX
Query Match          100.0%; Score 51; DB 16; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGTCGTCATGTCGTCCTCT 51
DB      1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGTCGTCATGTCGTCCTCT 1700
XX
RESULT 2
AAA49207
ID      AAA49207 standard; DNA; 2613 BP.
XX
XX      AAA49207;
XX
XX      22-NOV-2000 (first entry)
XX
XX      Human tumour necrosis factor alpha receptor 2 gene exon 10.
XX
XX      Human; tumour necrosis factor alpha receptor 2; TNFR2; polymorphism;
XX      osteoporosis; ds.
XX
XX      Homo sapiens.
XX
XX      Key          Location/Qualifiers
XX      CDS          1..2613
XX      FT          /*tag= a
XX      FT          /product= "TNFR2"
XX      FT          /partial
XX      FT          replace (593..A), (598..G), (620..T)
XX      FT          /*tag= b
XX      FT          /label= allele_1
XX      FT          replace (593..A), (598..T), (620..T)
XX      FT          /*tag= c
XX      FT          /label= allele_2
XX      FT          replace (593..G), (598..T), (620..C)
XX      FT          /*tag= d
XX      FT          /label= allele_3
XX      FT          replace (593..G), (598..T), (620..T)
XX      FT          /*tag= e
XX      FT          /label= allele_4
XX      FT          replace (593..A), (598..T), (620..C)
XX      FT          /*tag= f
XX      FT          /label= allele_5
XX
XX      WO200032826-A1.
XX
XX      08-JUN-2000.
XX
XX      30-NOV-1999; 99WO-US28403.
XX

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PR 30-NOV-1998; 98US-0110268.
XX (UYDR-) UNITV DREXEL.
XX
XX Spotila LD;
XX WPI; 2000-412362/35.
XX
XX Identifying individuals at risk of developing osteoporosis comprises
XX assessing the genotype of a tumor necrosis factor-alpha 2 receptor gene
XX in a DNA sample from an individual -
XX
XX Claim 2; Page 17-18; 21pp; English.
XX
XX The present sequence comprises exon 10 of the human tumour necrosis
XX factor alpha receptor 2 (THFR2) gene. The sequence contains three
XX polymorphic sites. By determining the genotype of an individual it is
XX possible to identify those at risk of osteoporosis, which is
XX characterised by low bone density and fragile bones, later in life. Those
XX at greatest risk are those who possess allele 1, which is the rarest
XX allele. This is particularly useful as many cases of osteoporosis go
XX undetected at present.

Seq Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;
Query Match 100.0%; Score 51; DB 21; Length 2613;
Best Local Similarity 100.0%; Pred. No. 3.1e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGCTGTGCCCTCT 51
Db 580 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGCTGTGCCCTCT 630

RESULT 3

ID AB235564 standard; cDNA; 2613 BP.

XX AB235564;

DT 05-FEB-2003 (first entry)

XX Human gene expression profile polynucleotide SEQ ID NO 675.

XX Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
XX bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
XX tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
XX gene expression; gene; ss.

XX Homo sapiens.

XX WO200274979-A2.

XX 26-SEP-2002.

XX 20-MAR-2002; 2002WO-US08456.

XX 20-MAR-2001; 2001US-276947P.

XX (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

XX Wan J, Wang Y;

XX WPI; 2002-740862/80.

XX New gene expression profile generated from primary, endothelial,
XX epithelial, and muscle cell types, useful for identifying disease
XX pathologies involving alterations of gene expression, e.g. cancer -
XX
XX Example 3; Page 798-799; 850pp; English.

XX The invention relates to a gene expression profile comprising one or more
XX genes (AB234889-AB235692) and generated from a cell type. The cell type

CC is a coronary artery endothelium, umbilical artery or vein endothelium,
CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
CC endothelium, myometrium microvascular endothelium, keratinocyte
CC epithelium, bronchial epithelium, mammary epithelium, prostate
CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
CC small airway epithelium, renal epithelium, umbilical artery smooth
CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
CC osteoblasts or prostate stromal cell. The gene expression profile is used
CC for determining the level of RNA expression for a sample, determining the
CC phenotype of a cell and distinguishing cell types. The gene or a protein
CC expression profile is useful in identifying disease pathologies
CC involving alterations of gene expression. The assessment of expression
CC profiles may provide meaningful information with respect to tumour type
CC and stage, treatment methods, and prognosis. The gene or protein
CC expression profile may also be used for creating microarrays. The
CC microarray is useful for genetic and physical mapping of genomes, DNA
CC sequencing, genetic or medical diagnosis, genotyping of organisms,
CC confirming cell or tissue identifications and in identifying promising
CC antibiotics, antiviral or antifungal agents.

Seq Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;
Query Match 100.0%; Score 51; DB 24; Length 2613;
Best Local Similarity 100.0%; Pred. No. 3.1e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGCTGTGCCCTCT 51
Db 580 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGCTGTGCCCTCT 630

RESULT 4

ID AB234910 standard; cDNA; 3683 BP.

XX AB234910;

DT 05-FEB-2003 (first entry)

XX Human gene expression profile polynucleotide SEQ ID NO 22.

XX Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
XX bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
XX tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
XX gene expression; gene; ss.

XX Homo sapiens.

XX WO200274979-A2.

XX 26-SEP-2002.

XX 20-MAR-2002; 2002WO-US08456.

XX 20-MAR-2001; 2001US-276947P.

XX (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

XX Wan J, Wang Y;

XX WPI; 2002-740862/80.

XX New gene expression profile generated from primary, endothelial,
XX epithelial, and muscle cell types, useful for identifying disease
XX pathologies involving alterations of gene expression, e.g. cancer -
XX
XX Claim 1; Page 235-236; 850pp; English.

XX The invention relates to a gene expression profile comprising one or more
XX genes (AB234889-AB235692) and generated from a cell type. The cell type

CC is a coronary artery endothelium, umbilical artery or vein endothelium,
 CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
 CC endothelium, myometrium microvascular endothelium, keratinocyte
 CC epithelium, bronchial epithelium, mammary epithelium, prostate
 CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
 CC small airway epithelium, renal epithelium, umbilical artery smooth
 CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
 CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
 CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
 CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
 CC osteoblasts or prostate stromal cell. The gene expression profile is used
 CC for determining the level of RNA expression for a sample, determining the
 CC phenotype of a cell and distinguishing cell types. The gene or a protein
 CC expression profile is useful in identifying disease pathologies
 CC involving alterations of gene expression. The assessment of expression
 CC profiles may provide meaningful information with respect to tumour type
 CC and stage, treatment methods, and prognosis. The gene or protein
 CC expression profile may also be used for creating microarrays. The
 CC microarray is useful for genetic and physical mapping of genomes, DNA
 CC sequencing, genetic or medical diagnosis, genotyping of organisms, DNA
 CC confirming cell or tissue identifications and in identifying promising
 CC antibiotics, antiviral or antifungal agents.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
 Qy Query Match 100.0%; Score 51; DB 24; Length 3683;
 Db Best Local Similarity 100.0%; Pred. No. 3.3e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCT 51
 Db 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCT 1700

RESULT 5
 ABQ74753 standard; cDNA; 3683 BP.

XX ABQ74753;

DT 24-OCT-2002 (first entry)

XX Human tumour necrosis factor receptor 2 encoding cDNA SEQ ID NO.3.

XX Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;

KM gene; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 90..1475

FT /tag= a

XX US6410324-B1.

XX 25-JUN-2002.

XX 27-APR-2001; 2001US-0844634.

XX 27-APR-2001; 2001US-0844634.

XX (ISIS-) ISIS PHARM INC.

XX Bennett CF, Wact AT;

XX WPI; 2002-606814/65.

XX P-SDB; ABP52451.

XX New compounds antisense to nucleic acid encoding human or mouse tumor
 PT necrosis factor receptor 2 are useful to treat disease associated with
 PT mouse tumor necrosis factor receptor 2 expression -

PS Claim 1; Column 53-58; 69pp; English.

XX The present invention describes compounds of 8-30 nucleobases antisense
 CC to a nucleic acid encoding human or mouse tumour necrosis factor
 CC receptor 2 (TNFR2). Also described is a method for inhibiting expression
 CC of human or mouse TNFR2 comprising contacting cells or tissues in vitro
 CC with one of the claimed compounds. The antisense compounds are used to
 CC treat a disease or condition associated with expression of TNFR2. The
 CC present sequence encodes human TNFR2, which is used in an example from
 XX the present invention.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Qy Query Match 100.0%; Score 51; DB 24; Length 3683;
 Db Best Local Similarity 100.0%; Pred. No. 3.3e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCT 51
 Db 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCT 1700

RESULT 6
 ABR83997 standard; cDNA; 3683 BP.

XX ABR83997;

DT 14-AUG-2002 (first entry)

XX Human cDNA differentially expressed in granulocytic cells #568.

KM viral infection; parasitic infection; protozoal infection;
 KM fungal infection; sterile inflammatory disease; psoriasis;
 KM rheumatoid arthritis; glomerulonephritis; asthma; Chromobiosis;
 KM cardiac reperfusion injury; renal reperfusion injury; ARDS;
 KM adult respiratory distress syndrome; inflammatory bowel disease;
 KM Crohn's disease; ulcerative colitis; periodontal disease;
 KM granulocyte activation; chronic inflammation; allergy.

XX Homo sapiens.

XX WO200228999-A2.

XX 11-APR-2002.

XX 03-OCT-2001; 2001WO-US30821.

XX 03-OCT-2000; 2000US-237189P.

XX (GENE-) GENE LOGIC INC.

XX Beazer-Barclay Y, Weisman SM, Yamaga S, Vockley J;

XX WPI; 2002-435328/46.

PT Detecting granulocyte activation by detecting differential expression
 PT of genes associated with granulocyte activation, which serves as
 PT diagnostic markers that is useful for monitoring disease states and
 PT drug toxicity -

PS Claim 1; SEQ ID No 568; 114pp; English.

XX The invention relates to detecting (M1) granulocyte (GC) activation
 CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
 CC DNA chip analysis as given in the specification, and comparing
 CC the expression level to an expression level in an unactivated
 CC GC, where differential expression of Gs is indicative of GCA.
 CC Also included are modulating (M2) GA by contacting GC with an agent
 CC that alters the expression of at least one gene in Gs; (2) screening (M3)
 CC for an agent capable of modulating GCA or an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a

CC subject to a pathogen or sterile inflammatory disease using the
 CC gene expression profile; (3) detecting (M4) an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease, by detecting the
 CC level of expression in a sample of the tissue of gene(s) from Gs, where
 CC the level of expression of the gene is indicative of inflammation;
 CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
 CC an allergic response in a subject, exposure of a subject to a pathogen
 CC or sterile inflammatory disease, by contacting a tissue having
 CC inflammation with an agent that modulates the expression of gene(s)
 CC from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
 CC modulating GAI; M3 is useful for screening an agent capable of modulating
 CC GCA preferably in an inflammation in a tissue; M4 is useful for
 CC detecting an inflammation (especially chronic) in a tissue, an allergic
 CC response in a subject, exposure of a subject to a pathogen or sterile
 CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 CC periodontal disease; also bacterial infection, viral infection,
 CC parasitic infection, protozoal infection, fungal infection and M5 is
 CC useful for treating one of the above conditions. The present
 CC sequence represents a gene differentially expressed in granulocytes.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;

Best Local Similarity 100.0%; Pred. No. 3.3e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCAGAGGACGAGTGGGGAAGCCTCTGCTGCCATGCTGTGCTCT 51

Db 1650 AGCAGAGGACGAGTGGGGAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 7

ABL65877
 ID ABL65877 standard; DNA; 3683 BP.

XX ABL65877;

DT 15-MAY-2002 (first entry)

DE Lung cancer related gene sequence SEQ ID NO:4214.

XX Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;

KW stomach; lung; prostate; pancreas; carcinoma; antitumor; cancerous;

KW cytostatic; gene therapy; antineoplastic; Wilms tumour; adenocarcinoma;

XX gene; ds.

OS Homo sapiens.

PN WO200194629-A2.

PD 13-DEC-2001.

PF 30-MAY-2001; 2001WO-US10838.

XX 05-JUN-2000; 2000US-209473P.

PR 05-JUN-2000; 2000US-209531P.

PR 18-SEP-2000; 2000US-233133P.

PR 18-SEP-2000; 2000US-233137P.

PR 20-SEP-2000; 2000US-234009P.

PR 20-SEP-2000; 2000US-234034P.

PR 22-SEP-2000; 2000US-234052P.

PR 22-SEP-2000; 2000US-234509P.

PR 22-SEP-2000; 2000US-234567P.

PR 25-SEP-2000; 2000US-234523P.

PR 25-SEP-2000; 2000US-234924P.

PR 25-SEP-2000; 2000US-235077P.
 PR 25-SEP-2000; 2000US-235082P.
 PR 25-SEP-2000; 2000US-235134P.
 PR 25-SEP-2000; 2000US-235280P.
 PR 26-SEP-2000; 2000US-235637P.
 PR 26-SEP-2000; 2000US-235638P.
 PR 27-SEP-2000; 2000US-235711P.
 PR 27-SEP-2000; 2000US-235720P.
 PR 27-SEP-2000; 2000US-235840P.
 PR 27-SEP-2000; 2000US-235863P.
 PR 28-SEP-2000; 2000US-236028P.
 PR 28-SEP-2000; 2000US-236032P.
 PR 28-SEP-2000; 2000US-236033P.
 PR 28-SEP-2000; 2000US-236034P.
 PR 28-SEP-2000; 2000US-236109P.
 PR 28-SEP-2000; 2000US-236111P.
 PR 28-SEP-2000; 2000US-236842P.
 PR 29-SEP-2000; 2000US-236891P.
 PR 02-OCT-2000; 2000US-237172P.
 PR 02-OCT-2000; 2000US-237173P.
 PR 02-OCT-2000; 2000US-237278P.
 PR 02-OCT-2000; 2000US-237294P.
 PR 02-OCT-2000; 2000US-237295P.
 PR 02-OCT-2000; 2000US-237316P.
 PR 03-OCT-2000; 2000US-237425P.
 PR 03-OCT-2000; 2000US-237598P.
 PR 03-OCT-2000; 2000US-237604P.
 PR 03-OCT-2000; 2000US-237606P.
 PR 03-OCT-2000; 2000US-237608P.
 PR 01-NOV-2000; 2000US-244867P.
 PR 01-NOV-2000; 2000US-245084P.
 (AVAL-) AVALON PHARM.
 PA Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
 PI Soppet DR, Weaver Z;
 XX WPI, 2002-188264/24.

PT Screening for anti-neoplastic agent involves exposing cells to a
 PT chemical agent to be tested for anti-neoplastic activity, and
 PT determining a change in expression of a gene of a signature gene set -

XX Claim 1; SEQ ID 4214; 44pp; English.

XX The present invention describes a method (M1) for screening for an
 CC anti-neoplastic agent. The method involves exposing cells to a chemical
 CC agent to be tested for anti-neoplastic activity, determining a change in
 CC expression of at least one gene (I) of a signature gene set, where (I)
 CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
 CC to ABL70110), or is at least 95% identical to (S), where a change in
 CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
 CC activity and can be used in gene therapy. M1 can be used for screening
 CC an anti-neoplastic agent, and can be used for producing a product which
 CC is the data collected with respect to the anti-neoplastic agent as a
 CC result of M1, and the data is sufficient to convey the chemical
 CC structure and/or properties of the agent. M1 can be used in the
 CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
 CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
 CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
 CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
 CC carcinoma, papillary carcinoma and Wilms tumour.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;

Best Local Similarity 100.0%; Pred. No. 3.3e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCAGAGGACGAGTGGGGAAGCCTCTGCTGCCATGCTGTGCTCT 51

Db 1650 AGCAGAGGACGAGTGGGGAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 8

ID ABK33465
ABK33465 standard; DNA; 3683 BP.

XX AC ABK33465;

DT 23-APR-2002 (first entry)

XX Human TNF receptor II gene.

DE Human, anti-tumour necrosis factor receptor II; TNF receptor II; SNP; chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder; inflammatory disorder; chronic disease; receptor; gene; de.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 90..1475

FT /tag= a

FT /product= "TNF receptor II"

FT sig_peptide 90..155

FT /tag= b

FT mat_peptide 156..1472

FT /tag= c

PN EP1172444-A1.

PD 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX (CONA-) CONARIS RES INST GMBH.

XX Schreiber S, Hampe J, Mascheretti S;

XX WPI; 2002-156651/21.

XX P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

XX DR P-PSDB; AAU75172.

ABK33466

ID ABK33466 standard; DNA; 3683 BP.

XX AC ABK33466;

DT 23-APR-2002 (first entry)

XX Human TNF receptor II gene with SNP in exon 2.

DE Human, anti-tumour necrosis factor receptor II; TNF receptor II; SNP; chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder; inflammatory disorder; chronic disease; receptor; gene; single nucleotide polymorphism; de.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 90..1475

FT /tag= a

FT /product= "TNF receptor II variant #1"

FT sig_peptide 90..155

FT /tag= b

FT mat_peptide 156..1472

FT /tag= c

FT variation replace (257, A)

FT /tag= d

FT /standard_name= "single nucleotide polymorphism"

PN EP1172444-A1.

PD 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

ABK33466

ID ABK33466 standard; DNA; 3683 BP.

XX AC ABK33466;

DT 23-APR-2002 (first entry)

XX Human TNF receptor II gene with SNP in exon 2.

DE Human, anti-tumour necrosis factor receptor II; TNF receptor II; SNP; chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder; inflammatory disorder; chronic disease; receptor; gene; single nucleotide polymorphism; de.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 90..1475

FT /tag= a

FT /product= "TNF receptor II variant #1"

FT sig_peptide 90..155

FT /tag= b

FT mat_peptide 156..1472

FT /tag= c

FT variation replace (257, A)

FT /tag= d

FT /standard_name= "single nucleotide polymorphism"

PN EP1172444-A1.

PD 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

ABK33466

ID ABK33466 standard; DNA; 3683 BP.

XX AC ABK33466;

DT 23-APR-2002 (first entry)

XX Human TNF receptor II gene with SNP in exon 2.

DE Human, anti-tumour necrosis factor receptor II; TNF receptor II; SNP; chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder; inflammatory disorder; chronic disease; receptor; gene; single nucleotide polymorphism; de.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 90..1475

FT /tag= a

FT /product= "TNF receptor II variant #1"

FT sig_peptide 90..155

FT /tag= b

FT mat_peptide 156..1472

FT /tag= c

FT variation replace (257, A)

FT /tag= d

FT /standard_name= "single nucleotide polymorphism"

PN EP1172444-A1.

PD 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-20

Query Match	100.0%	Score 51	DB 24	Length 3683
Best Local Similarity	100.0%	Pred. No. 3.3e-09		
Matches	51	Conservative	0	Mismatches 0; Indels 0; Gaps 0

1 AGCAGAGCGACGAGTTCGGGAGAAACCTCTGCTGCCAAGGTATGTCCTCT 51

|||||

Db 1650 AGCAGAGCGACGCGATTGGGGAAAGCCCTGTGCTGCATGTGTTGCCCTT 1700

RESULT 11
AAIX12093
ID AAXI2093 standard; DNA; 201 BP.
XX
AC AAXI2093;
XX
XX AAXI2093;
XX
DT 30-MAR-1999 (first entry)
XX
DE Human biallelic polymorphic DNA fragment M2315b.
XX
KW Polymorphism, biallelic; human; forensic; paternity testing; disease;
XX detection; phenotypic typing; characteristic; infection; hereditary;
XX autoimmune disease; cancer; inflammation; drug; therapy; medication;
XX treatment; marker; ss.
XX
OS Homo sapiens.
XX
PN W09820165-A2.
XX
PD 14-MAY-1998.
XX
PE 05-NOV-1997; 97MO-US20313.
XX
PR 06-NOV-1996; 96US-0030455.
XX
PA (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Hudson T, Lander ES, Wang D;
XX
WP1; 1998-286974/25.
XX
DR New isolated nucleic acid segments from the human genome - used for
PT determining polymorphic forms for use in e.g. forensics, paternity
PT testing or phenotypic typing for disease
XX
XX Claim 1; Page 219; 310pp; English.

AAIX10269-X12937 are human DNA fragments which contain biallelic
polymorphic markers which have been isolated using the primers
represented in AAX09121-X10268. The base occupying the polymorphic site
is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments
can be used in methods for determining polymorphic forms in an individual
for use in e.g. forensics, paternity testing or for phenotypic typing for
diseases such as agammaglobulinemia, diabetes insipidus, Leech-Nyhan
syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,
familial hypercholesterolemia, polycystic kidney disease, hereditary
spheroecytosis, von Willebrand's disease, tuberous sclerosis, hereditary
haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos
syndrome, osteogenesis imperfecta, acute intermittent porphyria,
autoimmune diseases, inflammation, cancer, diseases of the nervous
system, infection by pathogenic microorganisms, and characteristics such
as longevity, appearance (e.g. baldness, obesity), strength, speed,
endurance, fertility, and susceptibility or receptivity to particular
drugs or therapeutic treatments. The isolated polymorphic nucleic acid
segments can also be used to produce medicaments for the treatment or
prophylaxis of such diseases.

Sequence 201 BP; 32 A; 65 C; 62 G; 41 T; 1 other;

Query Match 99.2%; Score 50.6; DB 19; Length 201;
Best Local Similarity 98.0%; Pred. No. 2.8e-09;
Matches 50; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 AGCAGAGCGACGCGATTGGGGAAAGCCCTGTGCTGCATGTGTTGCCCTT 51
|||
Ddb 90 AGCAGAGCGACGCGATTGGGGAAAGCCCTGTGCTGCATGTGTTGCCCTT 140
|||||

RESULT 12
AAQ10956

```

ID  AAQ10956 standard; DNA; 2339 BP.
XX
AC  AAQ10956;
XX
DT  09-JAN-2003 (updated)
DT  24-MAY-1991 (first entry)
XX
DE  Encodes human 75KD TNF-binding protein.
XX
DE  Tumour Necrosis Factor; binding proteins; septic shock;
XX  autoimmune glomerulonephritis; lymphokine; cytokine.
XX  Homo sapiens.
XX  OS
XX  FH
XX  FT  Key      Location/Qualifiers
XX  FT  CDS      1..1179
XX  FT          /tag= a
XX  FT          /product= 75KD TNF-BP
XX
XX  EP417563-A.
XX  PN
XX  PD  20-MAR-1991.
XX
XX  PF  31-AUG-1990; 90EP-0116707.
XX
XX  PR  20-APR-1990; 90CH-0001347.
XX  PR  12-SEP-1989; 89CH-0003319.
XX  PR  08-MAR-1990; 90CH-0000746.
XX
XX  PA  (HOFF ) HOFFMANN-LA ROCHE AG.
XX
XX  PI  Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Loetscher H;
XX  PI  Schlaeger EJ;
XX
XX  DR  WPI, 1991-081851/12.
XX  DR  P-PSDB; AAR11605.
XX
XX  PT  Insoluble tumour necrosis factor binding proteins - and DNA
XX  PT  encoding them, useful in pharmaceutical prods. and for antibody
XX  PT  prodn.
XX
XX  PS  Claim 4; Fig 1; 26pp; German.
XX
XX  CC  Partial amino acid sequences were determined for the 55 and 75KD
XX  CC  TNF-BPs (see AAR11072-R11081) and oligonucleotide primers were
XX  CC  synthesised based on these partial sequences. The primers were used
XX  CC  to produce a cDNA fragment for use as a probe to screen a human
XX  CC  placental cDNA bank constructed in lambda gt11. Positive clones were
XX  CC  identified and sequenced. Repeated sequencing showed a discrepancy
XX  CC  at position 7 such that the third codon encodes either Thr or Ser.
XX  CC  DNA constructs comprising the TNF-BP coding sequence may also
XX  CC  contain a fragment encoding a human Ig domain. Recombinant
XX  CC  constructs are used to transform cells to confer improved TNF-
XX  CC  binding properties.
XX  CC  See also AAQ10955.
XX  CC  (Updated on 09-JAN-2003 to add missing OS field.)
XX
XX  SQ  Sequence 2339 BP; 494 A; 720 C; 685 G; 433 T; 1 other;
XX
XX  Query Match      93.7%; Score 47.8; DB 12; Length 2339;
XX  Best Local Similarity 96.1%; Pred. No. 4.7e-08;
XX  Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX  QY  1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
XX  ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX  DB  1353 AGCAGAGCAGCAGATTGTGAAAGCCTCTGCTGCATGATGCTCTCT 1403
XX
XX  RESULT 13
XX  ID  AAZ09171
XX  ID  AAZ09171 standard; cDNA; 2339 BP.
XX  AC  AAZ09171;

```

```

XX  XX  20-MAR-2003 (updated)
XX  DT  18-OCT-1999 (first entry)
XX
XX  DE  Human tumour necrosis factor binding protein cDNA fragment.
XX
XX  DE  Tumour necrosis factor binding protein; TNF; insoluble protein; agonist;
XX  DE  anti-inflammatory; antimalarial; treatment; septic shock; inflammation;
XX  DE  autoimmune glomerulonephritis; cerebral malaria; immune response;
XX  DE  antagonist; diagnosis; ds.
XX
XX  OS  Homo sapiens.
XX
XX  FH
XX  FT  Key      Location/Qualifiers
XX  FT  CDS      1..1179
XX  FT          /tag= a
XX  FT          /product= "TNF binding protein"
XX  FT          /note= "Partial sequence, no start codon given"
XX
XX  EP939121-A2.
XX  PN
XX  PD  01-SEP-1999.
XX
XX  PF  31-AUG-1990; 99EP-0100703.
XX
XX  PR  12-SEP-1989; 89CH-0003319.
XX  PR  08-MAR-1990; 90CH-0000746.
XX  PR  20-APR-1990; 90CH-0001347.
XX  PR  31-AUG-1990; 90EP-0116707.
XX
XX  PA  (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
XX  PI  Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Loetscher H;
XX  PI  Schlaeger E;
XX
XX  DR  WPI, 1999-480840/41.
XX  DR  P-PSDB; AAY30935.
XX
XX  PT  New insoluble proteins, and fragments, that bind to tumor necrosis
XX  PT  factor, used to treat e.g. septic shock or cerebral malaria
XX
XX  PS  Claim 4a; Fig 4; 25pp; German.
XX
XX  CC  This invention describes novel homogeneous insoluble proteins (I),
XX  CC  their (in)soluble fragments (Ia) and their salts that can bind tumour
XX  CC  necrosis factor (TNF). The products of the invention have
XX  CC  anti-inflammatory and antimalarial activity. (I) and (Ia) are used (i)
XX  CC  to treat diseases in which TNF is involved (e.g. septic shock, autoimmune
XX  CC  glomerulonephritis, cerebral malaria, immune responses and inflammation),
XX  CC  (ii) to purify TNF, (iii) to identify TNF (ant)agonists and (iv) for
XX  CC  diagnostic determination of TNF in body fluids. Antibodies raised against
XX  CC  (I) are used for affinity purification of (I). This sequence encodes
XX  CC  a tumour necrosis factor binding protein fragment described in the method
XX  CC  of the invention.
XX  CC  (Updated on 20-MAR-2003 to correct PF field.)
XX  CC  (Updated on 20-MAR-2003 to correct PR field.)
XX
XX  SQ  Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
XX
XX  Query Match      93.7%; Score 47.8; DB 20; Length 2339;
XX  Best Local Similarity 96.1%; Pred. No. 4.7e-08;
XX  Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX  QY  1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
XX  ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX  DB  1353 AGCAGAGCAGCAGATTGTGAAAGCCTCTGCTGCATGATGCTCTCT 1403
XX
XX  RESULT 14
XX  ID  AAH48860
XX  ID  AAH48860 standard; DNA; 2339 BP.
XX  AC  AAH48860;

```

XX		12-NOV-2001	(first entry)
DT			
XX			
DE			Human TNFBP-associated DNA #2.
XX			
KW	TNF; tumor necrosis factor binding protein; TNFBP; treatment;		
KM	insoluble protein; antiinflammatory; immunosuppressive; antibacterial;		
KW	antiprotocol; treatment; meningococcal sepsis; cerebral malaria;		
KX	autoimmune glomerulonephritis; ds.		
OS	Homo sapiens.		
XX			
FH	Key	Location/Qualifiers	
FT	CDS	1..1179	
FT		/*tag= a	
FT		/product= "TNFBP-associated protein"	
PN			
XX			
PD			
XX			
XX			
PF	31-AUG-1990;	2001EP-0108117.	
PR	12-SEP-1989;	89CH-0003319.	
PR	08-MAR-1990;	90CH-0000746.	
PR	20-APR-1990;	90CH-0001347.	
PR	31-AUG-1990;	90EP-0116707.	
PR	31-AUG-1990;	99EP-0100703.	
XX			
PA	(HOFF) HOFPMANN LA ROCHE & CO AG F.		
XX			
P1	Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Loetscher H;		
E1	Schlaeger E;		
XX			
DR	WPI: 2001-559312/63.		
P-PSDB:	AAB86618.		
PT	New homogeneous, insoluble proteins that bind tumor necrosis factor		
FT	(TNF), useful for treating TNF-mediated disorders, e.g. inflammation		
XX			
XX	Claim 4a; Fig 4; 26pp; German.		
CC	This invention describes novel insoluble proteins (I), also their		
CC	(in)soluble fragments and pharmaceutically acceptable salts, able to bind		
CC	tumor necrosis factor (TNF) and in homogeneous form. The products of the		
CC	invention have antiinflammatory, immunosuppressive, antibacterial,		
CC	antiprotocol activity. (I), and related recombinant proteins, are used		
CC	to treat diseases mediated by TNF, e.g. shock in cases of meningococcal		
CC	sepsis; development of autoimmune glomerulonephritis and cerebral		
CC	malaria. Also (I), or antibodies specific for them, are used for		
CC	diagnostic determination of TNF in body fluids, for affinity purification		
CC	of TNF and for identifying (ant)agonists of TNF. This sequence encodes a		
CC	human TNF binding protein described in the method of the invention.		
XX			
Sequence	2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;		
Query Match	93.7%; Score 47.8; DB 22; Length 2339;		
Best Local Similarity	96.1%; Pred. No. 4.7e-08;		
Matches	49; Conservative 0; Mismatches 2; Indels 0; Gaps 0		
OY	1 AGCAGAGCGACGAGTGTGGGAAACCCTTCCTGCCTCATGTGTGCCCTCT 51		
Db	1353 AGCAGAGCGACGAGTGTGGAAACCCTTCCTGCCTCATGTGTGCCCTCT 1403		
RESULT 15			
ID	AAQ10907		
XX	AAQ10907 standard; cDNA; 2393 BP.		
XX	AAQ10907;		
DT	25-MAR-2003 (updated)		
DT	13-MAY-1991 (first entry)		

```

XX DE 40kD TNF inhibitor precursor gene in c40DK#6.
XX XX Tumour necrosis factor; inhibitor; ss.
XX KW
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
FT CDS 93..1478
FT /tag=a
XX PN
XX AU05058976-A.
XX PD
XX 24-JAN-1991.
XX PF
XX 16-JUL-1990; 90AU-0058976.
XX PR 07-FEB-1990; 90US-0479661.
XX PR 18-JUL-1989; 89US-0381080.
XX PR 11-DEC-1989; 89US-0450329.
XX PA
XX (SYND ) SYNERGEN INC.
XX DR
XX WPI; 1991-073847/11.
XX DR P-PSDB; AAR11001.
XX PT
XX Tumour necrosis factor inhibitor - for suppression of TNF-alpha
XX and -beta, useful as therapeutic agent.
XX PS
XX Disclosure; Fig 39; 142pp; English.
XX CC
XX The sequence encodes the entire 40 kD TNF inhibitor. The clone from
XX which the sequence was obtd. was isolated from a cDNA library
XX prep'd. from RNA form U937 cells treated with PMA/PHA. The whole
XX gene can be inserted into expression vectors for prep'n. of TNF
XX inhibitor for use in the treatment of inflammatory and degenerative
XX diseases.
XX See also AAQ10878, AAQ10884 and AAQ10883.
XX CC (Updated on 25-MAR-2003 to correct PA field.)
XX SQ
XX Sequence 2393 BP; 484 A; 743 C; 738 G; 428 T; 0 other;

Query Match 93.7%; Score 47.8; DB 12; Length 2393;
Best Local Similarity 96.1%; Pred. No. 4.7e-08;
Matches 49; Conservative % 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCGAGGCGACGAGTGGGGAAAGCCTCTGCTGCCATGCTGTGCTCCTCT 51
Db 1652 AGCAGAGGCGACGCGGTTGTGGAAAGCCTCTGCTGCCATGCTGTGCTCCTCT 1702

Search completed: December 16, 2003, 18:21:06
Job time : 148 secs

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/ APPLICATION NUMBER: IL 90339
/ FILING DATE: 18-MAY-1989
/ ATTORNEY/AGENT INFORMATION:
/ NAME: BROWDY, Roger L.
/ REGISTRATION NUMBER: 25,618
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-628-5197
/ TELEFAX: 202-737-3528
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2224 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 90..1472
/ US-09-800-909-1

Query Match      100.0%; Score 51; DB 9; Length 2224;
Best Local Similarity 100.0%; Pred. No. 8.4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51
DB      1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 2
US-09-800-908-2
/ Sequence 2, Application US/09800908
/ Patent No. US20020111462A1
/ GENERAL INFORMATION:
/ APPLICANT: WALLACH, David
/ BIGDA, Jacek
/ BELETSKY, Igor
/ METT, Igor
/ TITLE OF INVENTION: TNF LIGANDS
/ NUMBER OF SEQUENCES: 17
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: BROWDY AND NEIMARK
/ STREET: 419 Seventh Street, N.W.
/ CITY: Washington
/ STATE: D.C.
/ COUNTRY: USA
/ ZIP: 20004
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/800,908
/ FILING DATE: 08-Mar-2001
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/477,347
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: IL 106271
/ FILING DATE: 08-JUL-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Townsend, G. Kevin
/ REGISTRATION NUMBER: 34,033
/ REFERENCE/DOCKET NUMBER: WALLACH=10
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-628-5197
/ TELEFAX: 202-737-3528
/ TELEX: 248633
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2224 base pairs
```

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/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 90..1472
/ SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-800-908-2

Query Match      100.0%; Score 51; DB 10; Length 2224;
Best Local Similarity 100.0%; Pred. No. 8.4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51
DB      1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 3
US-10-101-510-675
/ Sequence 675, Application US/10101510
/ Publication No. US20030148295A1
/ GENERAL INFORMATION:
/ APPLICANT: WAN, JACKSON
/ TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
/ FILE REFERENCE: 15117.0012
/ CURRENT APPLICATION NUMBER: US/10/101,510
/ PRIOR FILING DATE: 2002-03-20
/ PRIOR APPLICATION NUMBER: 60/276,947
/ PRIOR FILING DATE: 2001-03-20
/ NUMBER OF SEQ ID NOS: 805
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO: 675
/ LENGTH: 2613
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-10-101-510-675

Query Match      100.0%; Score 51; DB 13; Length 2613;
Best Local Similarity 100.0%; Pred. No. 8.4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51
DB      580 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 630

RESULT 4
US-09-954-456-1187
/ Sequence 1187, Application US/09954456
/ Patent No. US20020115057A1
/ GENERAL INFORMATION:
/ APPLICANT: Young, Paul
/ TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
/ TITLE OF INVENTION: Sets
/ FILE REFERENCE: 689290-76
/ CURRENT APPLICATION NUMBER: US/09/954,456
/ FILING DATE: 2001-09-18
/ PRIOR APPLICATION NUMBER: US/60/233,617
/ PRIOR FILING DATE: 2000-09-18
/ PRIOR APPLICATION NUMBER: US/60/234,052
/ PRIOR FILING DATE: 2000-09-20
/ PRIOR APPLICATION NUMBER: US/60/234,923
/ PRIOR FILING DATE: 2000-09-25
/ PRIOR APPLICATION NUMBER: US/60/235,134
/ PRIOR FILING DATE: 2000-09-25
/ PRIOR APPLICATION NUMBER: US/60/235,637
/ PRIOR FILING DATE: 2000-09-26
/ PRIOR APPLICATION NUMBER: US/60/235,638
/ PRIOR FILING DATE: 2000-09-26
/ PRIOR APPLICATION NUMBER: US/60/235,711
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; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1187
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-1187

Query Match
Best Local Similarity 100.0%; Score 51; DB 10; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 5
US-09-902-176A-49
; Sequence 49, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; FILE REFERENCE: No. US20030099943A1-Responders to Anti-TNF-Therapy
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: (156)
US-09-902-176A-49

Query Match
Best Local Similarity 100.0%; Score 51; DB 11; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 6
US-09-902-176A-51
; Sequence 51, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting

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; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: (156)
US-09-902-176A-51

Query Match
Best Local Similarity 100.0%; Score 51; DB 11; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 7
US-09-902-176A-53
; Sequence 53, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; FILE REFERENCE: No. US20030099943A1-Responders to Anti-TNF-Therapy
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 53
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: (156)
US-09-902-176A-53

Query Match
Best Local Similarity 100.0%; Score 51; DB 11; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 8
US-10-101-510-22
; Sequence 22, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:

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/ APPLICANT: WAN, JACKSON
/ APPLICANT: WANG, YIXIN
/ TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
/ FILE REFERENCE: 15117.0012
/ CURRENT APPLICATION NUMBER: US/10/101,510
/ PRIOR FILING DATE: 2002-03-20
/ PRIOR APPLICATION NUMBER: 60/276,947
/ PRIOR FILING DATE: 2001-03-20
/ NUMBER OF SEQ ID NOS: 805
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 22
/ LENGTH: 3683
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-101-510-22

Query Match          100.0%; Score 51; DB 13; Length 3683;
Best Local Similarity 100.0%; Pred. No. 8,4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACACAGGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCTCTCT 51
Db 1650 ACACAGGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCTCTCT 1700

RESULT 9
US-10-207-655-191
/ Sequence 191, Application US/10207655
/ Publication No. US20030118592A1
/ GENERAL INFORMATION:
/ APPLICANT: Ledbetter, Jeffrey A.
/ APPLICANT: Hayden-Ledbetter, Martha S.
/ TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
/ FILE REFERENCE: 390069.401C1
/ CURRENT APPLICATION NUMBER: US/10/207,655
/ CURRENT FILING DATE: 2002-07-25
/ NUMBER OF SEQ ID NOS: 426
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 191
/ LENGTH: 3492
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-207-655-191

Query Match          93.7%; Score 47.8; DB 15; Length 3492;
Best Local Similarity 96.1%; Pred. No. 1.4e-08;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AGCAGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCTCTCT 51
Db 1453 AGCAGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCTCTCT 1503

RESULT 10
US-09-864-761-20482/c
/ Sequence 20482, Application US/09864761
/ Patent No. US20020048763A1
/ GENERAL INFORMATION:
/ APPLICANT: Penn, Sharon G.
/ APPLICANT: Rank, David R.
/ APPLICANT: Hanzel, David K.
/ APPLICANT: Chen, Wensheng
/ TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
/ TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
/ FILE REFERENCE: Aeomica-X-1
/ CURRENT APPLICATION NUMBER: US/09/864,761
/ CURRENT FILING DATE: 2001-05-23
/ PRIOR APPLICATION NUMBER: US 60/180,312
/ PRIOR FILING DATE: 2000-02-04
/ PRIOR APPLICATION NUMBER: US 60/207,456
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: US 09/632,366
/ PRIOR FILING DATE: 2000-08-03
```

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/ PRIOR APPLICATION NUMBER: GB 24263.6
/ PRIOR FILING DATE: 2000-10-04
/ PRIOR APPLICATION NUMBER: US 60/236,359
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: PCT/US01/00666
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00667
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00664
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00669
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00665
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00668
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00663
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00662
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00661
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00670
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: US 60/234,687
/ PRIOR FILING DATE: 2000-09-21
/ PRIOR APPLICATION NUMBER: US 09/608,408
/ PRIOR FILING DATE: 2000-06-30
/ PRIOR APPLICATION NUMBER: US 09/774,203
/ PRIOR FILING DATE: 2001-01-29
/ NUMBER OF SEQ ID NOS: 49117
/ SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
/ SEQ ID NO 20482
/ LENGTH: 84
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: MAP TO AF000010.2
/ OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.7
/ OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.4
/ OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.3
/ OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
/ OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
/ OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.4
/ OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
/ OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
/ OTHER INFORMATION: NT HIT: Y09912.1, EVALUATE 5.80e-01
/ OTHER INFORMATION: EST_HUMAN HIT: BE047094.1, EVALUATE 3.00e-06
US-09-864-761-20482

Query Match          50.2%; Score 25.6; DB 9; Length 84;
Best Local Similarity 77.5%; Pred. No. 3.3;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 5 GAGCAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTG 44
Db 43 GAGCAACGTGAAGGGGAAAGCCTGAGCGCTGTGTG 4

RESULT 11
US-09-864-761-3716/c
/ Sequence 3716, Application US/09864761
/ Patent No. US20020048763A1
/ GENERAL INFORMATION:
/ APPLICANT: Penn, Sharon G.
/ APPLICANT: Rank, David R.
/ APPLICANT: Hanzel, David K.
/ APPLICANT: Chen, Wensheng
/ TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
/ TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
/ FILE REFERENCE: Aeomica-X-1
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CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
SEQ ID NO 3716
LENGTH: 416
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AP000010.2
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
US-09-864-761-3716

Query Match      50.2%; Score 25.6; DB 9; Length 416;
Best Local Similarity 77.5%; Pred. No. 3.3;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Db      5 GAGGCGAGGAGTTGGGAAAGCCTGCTGCGCATGTGTG 44
      337 GAGCAACCTGAAGGGGAAAGCCACTGACCGCTGTGTG 298

RESULT 12
US-09-864-761-1826
Sequence 1826 Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
```

```

APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aecmca-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
SEQ ID NO 1826
LENGTH: 464
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC009297.2
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.4
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 5
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2.2
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.8
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 9.8
US-09-864-761-1826

Query Match      50.2%; Score 25.6; DB 9; Length 464;
Best Local Similarity 70.8%; Pred. No. 3.3;
Matches 34; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Db      3 CAGAGCGAGGAGTTGGGAAAGCCTGCTGCGCATGTGTG 50
      269 CATGCCAGTGAAGTTGGGAAATCAGCTCTGCTGTGAGTTGCC 316
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RESULT 13
US-10-027-632-86806/c
; Sequence 86806, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86806
; LENGTH: 1082
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1082)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-86806

Query Match          50.2%; Score 25.6; DB 13; Length 1082;
Best Local Similarity 77.5%; Pred. No. 3.4;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      5 GAGGCGAGCGAGTGGGGAAGCCTCTGCTGCCATGCTGTG 44
Db      1035 GAGCAACGTGAAGGGGAAAGCCACTGCAGCCGTGTGTG 996

RESULT 14
US-10-027-632-86806/c
; Sequence 86806, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86806
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; LENGTH: 1082
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1082)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-86806

Query Match          50.2%; Score 25.6; DB 14; Length 1082;
Best Local Similarity 77.5%; Pred. No. 3.4;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      5 GAGGCGAGCGAGTGGGGAAGCCTCTGCTGCCATGCTGTG 44
Db      1035 GAGCAACGTGAAGGGGAAAGCCACTGCAGCCGTGTGTG 996

RESULT 15
US-09-864-761-23584
; Sequence 23584, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Fenn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 23584
; LENGTH: 426
; TYPE: DNA
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ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AL139819.2
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.7
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3.6
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 5.1
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 4.4
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.9
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 6.1
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.9
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.5
OTHER INFORMATION: NT HIT: g11434431, EVALUATE 0.00e+00
OTHER INFORMATION: EST HUMAN HIT: AA398511.1, EVALUATE 0.00e+00
OTHER INFORMATION: SWISSPROT HIT: P35232, EVALUATE 5.00e-44
US-09-864-761-23584

Query Match 48.6%; Score 24.8; DB 9; Length 426;
Best Local Similarity 72.7%; Pred. No. 6.7; Mismatches 12; Indels 0; Gaps 0;
Matches 32; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 7 GGCAGCGAGTTGGGGAAGCCTCTGCTGCCATGCTGTGCTC 50
| | | | | | | | | | | | | | | | | | | | | |
DB 188 GCCAGTGAGTTGGCGATCGATCGCTGCTGCTTGAATGCCCTC 231

Search completed: December 16, 2003, 19:42:38
Job time : 155 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: December 16, 2003, 18:10:00 ; Search time 62 Seconds
(without alignments)
363.073 Million cell updates/sec

Title: US-09-856-937A-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagggcagcagatggtg.....ctgcacatggtgtccctct 51

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents, NA:*

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2: /cgn2_6/ptodata/1/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS.COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	2224	3 US-08-477-347-2	Sequence 2, Appl1
2	51	100.0	2224	3 US-08-476-862-1	Sequence 1, Appl1
3	51	100.0	2224	3 US-09-800-909-1	Sequence 1, Appl1
4	51	100.0	3683	4 US-09-844-634-3	Sequence 3, Appl1
5	47.8	93.7	15602	4 US-09-844-634-17	Sequence 17, Appl1
6	23.2	45.5	1020	1 US-08-114-461-1	Sequence 1, Appl1
7	23.2	45.5	1020	1 US-08-192-156-1	Sequence 1, Appl1
8	23.2	45.5	1020	1 US-08-370-789-1	Sequence 1, Appl1
9	23.2	45.5	1328	4 US-09-297-911-22	Sequence 22, Appl1
10	22.8	44.7	1896	4 US-09-252-991A-3879	Sequence 3879, Ap
11	22.8	44.7	2562	4 US-09-252-991A-3975	Sequence 3975, Ap
12	22.8	44.7	2562	4 US-09-252-991A-4045	Sequence 4045, Ap
13	22.4	43.9	1230	4 US-09-370-950C-1	Sequence 1, Appl1
14	22.4	43.9	1319	2 US-08-484-933B-17	Sequence 17, Appl1
15	22.4	43.9	1319	2 US-08-484-158B-17	Sequence 17, Appl1
16	22.4	43.9	1319	2 US-08-484-556A-17	Sequence 17, Appl1
17	22.4	43.9	1319	2 US-08-480-150A-17	Sequence 17, Appl1
18	22.4	43.9	1319	3 US-08-458-731-17	Sequence 17, Appl1
19	22.4	43.9	1319	3 US-08-149-223A-17	Sequence 17, Appl1
20	22.4	43.9	1230025	4 US-08-198-452A-1	Sequence 1, Appl1
21	22.2	43.5	1074	1 US-08-045-269C-3	Sequence 3, Appl1
22	22.2	43.5	1074	3 US-08-371-680-3	Sequence 3, Appl1
23	22.2	43.5	1554	5 PCT-US94-01198-3	Sequence 3, Appl1
24	22.2	43.5	1554	1 US-08-045-269C-1	Sequence 1, Appl1
25	22.2	43.5	1554	3 US-08-371-680-1	Sequence 1, Appl1
26	22.2	43.5	1554	5 PCT-US94-01198-1	Sequence 1, Appl1
27	22.2	43.5	536165	4 US-09-214-808-1	Sequence 1, Appl1

28	22	43.1	1530	4 US-09-252-991A-6611	Sequence 6611, Ap
29	22	43.1	38494	4 US-08-311-731A-24	Sequence 24, Appl1
30	22	43.1	38675	4 US-08-311-731A-135	Sequence 135, App
31	22	43.1	87563	4 US-09-453-702B-57	Sequence 57, Appl1
32	21.8	42.7	1011	2 US-09-013-634-3	Sequence 3, Appl1
33	21.8	42.7	2581	2 US-09-013-634-1	Sequence 1, Appl1
34	21.8	42.7	2908	4 US-09-930-181-1	Sequence 1, Appl1
35	21.8	42.7	26664	4 US-09-564-805-28	Sequence 28, Appl1
36	21.6	42.4	812	1 US-07-612-674-3	Sequence 3, Appl1
37	21.6	42.4	1650	4 US-09-252-991A-3625	Sequence 3625, Ap
38	21.6	42.4	1696	1 US-07-612-674-1	Sequence 1, Appl1
39	21.6	42.4	2766	4 US-09-252-991A-3756	Sequence 3756, Ap
40	21.6	42.4	2874	4 US-09-252-991A-3837	Sequence 3837, Ap
41	21.4	42.0	2053	4 US-09-227-357-45	Sequence 45, Appl1
42	21.4	42.0	2136	4 US-09-587-184-1	Sequence 1, Appl1
43	21.2	41.6	544	2 US-08-890-980-17	Sequence 17, Appl1
44	21.2	41.6	544	3 US-08-890-979-17	Sequence 17, Appl1
45	21.2	41.6	544	3 US-09-032-894-17	Sequence 17, Appl1

ALIGNMENTS

RESULT 1
US-08-477-347-2
; Sequence 2, Application US/08477347
; Patent No. 6232446
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSER: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,347
; FILING DATE:
; CLASSIFICATION:
; APPLICATION DATA:
; APPLICATION NUMBER: 08/115,685
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-5528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS

LOCATION: 90.1472
US-08-477-347-2

Query Match 100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51
DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 2

US-08-476-862-1
Sequence 1, Application US/08476862
Patent No. 6262239

GENERAL INFORMATION:

APPLICANT: WALLACH, David
APPLICANT: BIGDA, Jacek
APPLICANT: BELETSKY, Igor
APPLICANT: METT, Igor
APPLICANT: ENGELMANN, Hartmut
TITLE OF INVENTION: TNF INHIBITORS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,862
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 107267
FILING DATE: 12-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 94039
FILING DATE: 06-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS
LOCATION: 90.1472
US-08-476-862-1

Query Match 100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51
DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 3

US-09-800-909-1
Sequence 1, Application US/09809099
Patent No. 6555111

GENERAL INFORMATION:

APPLICANT: WALLACH, David
APPLICANT: BIGDA, Jacek
APPLICANT: BELETSKY, Igor
APPLICANT: METT, Igor
APPLICANT: ENGELMANN, Hartmut
TITLE OF INVENTION: TNF INHIBITORS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/800,909
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/476,862
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 94039
FILING DATE: 06-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS
LOCATION: 90.1472
US-09-800-909-1

Query Match 100.0%; Score 51; DB 4; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51
DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 4
US-09-844-634-3
Sequence 3, Application US/09844634
Patent No. 6410324
GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION
FILE REFERENCE: RTS-0216
CURRENT APPLICATION NUMBER: US/09/844,634
CURRENT FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 3
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)...(1475)
US-09-844-634-3

Query Match
Best Local Similarity 100.0%; Score 51; DB 4; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTGGGAAAGCCTCTGCTGCATGATGTCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTGGGAAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 5
US-09-844-634-17
Sequence 17, Application US/09844634
Patent No. 6410324
GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION
FILE REFERENCE: RTS-0216
CURRENT APPLICATION NUMBER: US/09/844,634
CURRENT FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 17
LENGTH: 15602
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
US-09-844-634-17

Query Match
Best Local Similarity 96.1%; Score 47.8; DB 4; Length 15602;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTGGGAAAGCCTCTGCTGCATGATGTCCTCT 51
DB 11183 AGCAGAGCAGCAGGAGTGGGAAAGCCTCTGCTGCATGATGTCCTCT 11233

RESULT 6
US-08-114-461-1/c
Sequence 1, Application US/08114461
Patent No. 5401635
GENERAL INFORMATION:
APPLICANT: NAKAMURA, Y., SATO, T.
TITLE OF INVENTION: HUMAN PROHIBITIN AND DNA
TITLE OF INVENTION: CODING FOR THE SAME
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLYNN, THIEL, BOUTELL & TANIS, P.C.
STREET: 2026 Rambling Road
CITY: Kalamazoo

STATE: Michigan
COUNTRY: USA
ZIP: 49008-1699
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb storage
COMPUTER: IBM/PC/XT/AT Compatible
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: WORD PERFECT 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/114,461
FILING DATE: 31-AUG-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/009,255
FILING DATE: January 22, 1993
APPLICATION NUMBER: JP4-011156
FILING DATE: 24-01-1992
APPLICATION NUMBER: JP4-308654
FILING DATE: 18-11-1992
ATTORNEY/AGENT INFORMATION:
NAME: Teriyence F. Chapman
REGISTRATION NUMBER: 32 549
REFERENCE/DOCKET NUMBER: Furuya Case 1282
TELEPHONE: (616) 381-1156
TELEFAX: (616) 381-5465
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1020 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: yes
ANTI-SENSE: no
ORIGINAL SOURCE:
ORGANISM: Homosapiens
INDIVIDUAL ISOLATE:
CELL TYPE:
IMMEDIATE SOURCE:
LIBRARY: Human fetal brain cDNA library
CLONE:
FEATURE:
NAME/KEY: Peptide
LOCATION: 23 to 839
IDENTIFICATION METHOD: analogy with a known sequence or a consensus sequence
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 1020

US-08-114-461-1
Query Match
Best Local Similarity 45.5%; Score 23.2; DB 1; Length 1020;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 7 GGCAGCAGAGTGGGAAAGCCTCTGCTGCATGATGTCCTCTC 50
DB 736 GGCAGTGGAGTGGCAATCAGCTCAGCTTGGAGTGGCCTC 693

RESULT 7
US-08-192-156-1/c
Sequence 1, Application US/08192156
Patent No. 5463026
GENERAL INFORMATION:
APPLICANT: NAKAMURA, Y., SATO, T.

TITLE OF INVENTION: HUMAN PROHIBITIN AND DNA
TITLE OF INVENTION: CODING FOR THE SAME
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLYNN, THIEL, BOUTELL & TANIS, P.C.
STREET: 2026 Rambling Road
CITY: Kalamazoo
STATE: Michigan
COUNTRY: USA
ZIP: 49008-1699
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb storage
COMPUTER: IBM/PC/XT/AT Compatible
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: WORD PERFECT 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/192,156
FILING DATE: 04-FEB-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/009,255
FILING DATE: January 22, 1993
APPLICATION NUMBER: JP4-011156
FILING DATE: 24-01-1992
APPLICATION NUMBER: JP4-308654
FILING DATE: 18-11-1992
ATTORNEY/AGENT INFORMATION:
NAME: Terryence F. Chapman
REGISTRATION NUMBER: 32 549
REFERENCE/DOCKET NUMBER: Futuya Case 1282
TELECOMMUNICATION INFORMATION:
TELEPHONE: (616) 381-1156
TELEFAX: (616) 381-5465
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1020 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: yes
ANTI-SENSE: no
ORIGINAL SOURCE:
ORGANISM: Homosapiens
INDIVIDUAL ISOLATE:
CELL TYPE:
IMMEDIATE SOURCE:
LIBRARY: Human fetal brain cDNA library
CLONE:
FEATURE:
NAME/KEY: Peptide
LOCATION: 23 to 839
IDENTIFICATION METHOD: analogy with a known sequence or
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 1020
US-08-192-156-1

Query Match 45.5%; Score 23.2; DB 1; Length 1020;
Best Local Similarity 70.5%; Pred. No. 7.9; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 7 GGCAGCGAGTGGGAAAGCTCTGCTGCATGATGTGTCCTC 50
DB 736 GCACGTGAGTTGGCAATCAGCTCAGCTGCTTGAGTGGCCCTC 693

RESULT 8
US-08-370-789-1/c
Sequence 1, Application US/08370789
Patent No. 559707
GENERAL INFORMATION:
APPLICANT: NAKAMURA, Y., SATO, T.
TITLE OF INVENTION: HUMAN PROHIBITIN AND DNA
TITLE OF INVENTION: CODING FOR THE SAME
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLYNN, THIEL, BOUTELL & TANIS, P.C.
STREET: 2026 Rambling Road
CITY: Kalamazoo
STATE: Michigan
COUNTRY: USA
ZIP: 49008-1699
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb storage
COMPUTER: IBM/PC/XT/AT Compatible
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: WORD PERFECT 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/370,789
FILING DATE: 10-JAN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/114,461
FILING DATE: 31-AUG-1993
APPLICATION NUMBER: US/08/009,255
FILING DATE: January 22, 1993
APPLICATION NUMBER: JP4-011156
FILING DATE: 24-01-1992
APPLICATION NUMBER: JP4-308654
FILING DATE: 18-11-1992
ATTORNEY/AGENT INFORMATION:
NAME: Terryence F. Chapman
REGISTRATION NUMBER: 32 549
REFERENCE/DOCKET NUMBER: Futuya Case 1282
TELECOMMUNICATION INFORMATION:
TELEPHONE: (616) 381-1156
TELEFAX: (616) 381-5465
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1020 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: yes
ANTI-SENSE: no
ORIGINAL SOURCE:
ORGANISM: Homosapiens
INDIVIDUAL ISOLATE:
CELL TYPE:
IMMEDIATE SOURCE:
LIBRARY: Human fetal brain cDNA library
CLONE:
FEATURE:
NAME/KEY: Peptide
LOCATION: 23 to 839
IDENTIFICATION METHOD: analogy with a known sequence or a consensus sequence
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 1020

US-08-370-789-1

Query Match 45.5%; Score 23.2; DB 1; Length 1020;
Best Local Similarity 70.5%; Pred. No. 7.9;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 7 GGCACGAGTTGGGGAAGCCTCTGCTGCATGCTGTGCTC 50
DB 736 GCGAGTGGATTGGCATCAGCTCAGCTGCTTGGAGTCCCTC 693

RESULT 9

US-09-297-911-22/C
Sequence 22, Application US/09297911
Patent No. 6355427

GENERAL INFORMATION:

APPLICANT:

APPLICANT:

APPLICANT:

APPLICANT:

TITLE OF INVENTION: DIAGNOSTIC ASSAY FOR BREAST CANCER

TITLE OF INVENTION: SUSCEPTIBILITY

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:

ADDRESSER: SIDLEY & AUSTIN

STREET: 717 N. Harwood, Suite 3400

CITY: Dallas

STATE: Texas

COUNTRY: United States of America

ZIP: 75201

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/297,911

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Hansen, Eugenia S.

REGISTRATION NUMBER: 31,966

REFERENCE/DOCKET NUMBER: 11146/08308

TELECOMMUNICATION INFORMATION:

TELEPHONE: (214) 981-3300

TELEFAX: (214) 981-3400

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 1328 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

FEATURE:

NAME/KEY: 5'clip

LOCATION: 1..477

US-09-297-911-22

Query Match 45.5%; Score 23.2; DB 4; Length 1328;
Best Local Similarity 70.5%; Pred. No. 8.3;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 7 GGCACGAGTTGGGGAAGCCTCTGCTGCATGCTGTGCTC 50
DB 261 GCGAGTGGATTGGCATCAGCTCAGCTGCTTGGAGTCCCTC 218

RESULT 10

US-09-252-991A-3879
Sequence 3879, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 3879

LENGTH: 1128

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-3879

Query Match 44.7%; Score 22.8; DB 4; Length 1128;
Best Local Similarity 71.4%; Pred. No. 11;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 GCGAGGCGAGTGGGGAAGCCTCTGCTGCATGCTGT 43
DB 983 GCGAGGCGAGTGGGGAAGCCTCTGCTGCATGCTGT 1024

RESULT 11

US-09-252-991A-3975/C
Sequence 3975, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 3975

LENGTH: 1896

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-3975

Query Match 44.7%; Score 22.8; DB 4; Length 1896;
Best Local Similarity 71.4%; Pred. No. 13;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 GCGAGGCGAGTGGGGAAGCCTCTGCTGCATGCTGT 43
DB 1304 GCGAGGCGAGTGGGGAAGCCTCTGCTGCATGCTGT 1263

RESULT 12

US-09-252-991A-4045/C
Sequence 4045, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 4045
LENGTH: 2562
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-4045

Query Match 44.7%; Score 22.8; DB 4; Length 2562;
Best Local Similarity 71.4%; Pred. No. 13;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 GGAGAGCGACGAGTGGGAAAGCCTGCTGCCATGTGTGT 43
DB 90 GGATAGCGCGTATTTGGGAAATGCCGCTCATGCCAGGCTCT 49

RESULT 13
US-09-370-950C-1/c
Sequence 1, Application US/09370950C
Patent No. 6500653
GENERAL INFORMATION:
APPLICANT: ABO, ARIE
APPLICANT: ARONHEIM, AMI
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES WHICH RESEMBLE RHO AND WHICH
FILE REFERENCE: ONYX1042-US
CURRENT APPLICATION NUMBER: US/09/370,950C
CURRENT FILING DATE: 1999-08-09
PRIOR APPLICATION NUMBER: US 60/095,725
PRIOR FILING DATE: 1998-08-07
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1230
TYPE: DNA
ORGANISM: RAT CHP
FEATURE:
NAME/KEY: CDS
LOCATION: (103)..(807)
OTHER INFORMATION:
US-09-370-950C-1

Query Match 43.9%; Score 22.4; DB 4; Length 1230;
Best Local Similarity 66.7%; Pred. No. 16;
Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 AGCAGCGACGAGTGGGAAAGCCTGCTGCCATGTGTGTCC 48
DB 400 AGCAGGAGAGAACGAGCCGCTCAAGTCTCTGCTGCTGTCCC 353

RESULT 14
US-08-484-993B-17/c
Sequence 17, Application US/08484993B
Patent No. 5837497
GENERAL INFORMATION:
APPLICANT: Harris Ph.D., Jeffrey D.
APPLICANT: Hsu, Kuang T.
APPLICANT: Podolski, Joseph S.
TITLE OF INVENTION: Materials and Methods for Immunocontraception
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,993B
FILING DATE: 09-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/012,990
FILING DATE: 29-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,341
FILING DATE: 09-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 31745
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6653
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1319 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Felis domesticus
DEVELOPMENTAL STAGE: Juvenile
HAPOTYPE: Diploidy
TISSUE TYPE: Ovary
CELL TYPE: Oocyte
FEATURE:
NAME/KEY: CDS
LOCATION: 26..1237
US-08-484-993B-17

Query Match 43.9%; Score 22.4; DB 2; Length 1319;
Best Local Similarity 72.5%; Pred. No. 17;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 7 GGCAGCGAGTGGGAAAGCCTGCTGCCATGTGTGTCTC 46
DB 1076 GCCTGCGATTTCGGGAGCAGCATCTTGCTCCACGGTCTCTC 1037

RESULT 15
US-08-484-158B-17/c
Sequence 17, Application US/08484158B
Patent No. 5976545
GENERAL INFORMATION:
APPLICANT: Harris Ph.D., Jeffrey D.
APPLICANT: Hsu, Kuang T.
APPLICANT: Podolski, Joseph S.
TITLE OF INVENTION: Pharmaceutical Compositions for
NUMBER OF SEQUENCES: 61
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,158B
FILING DATE: 07-JUNE-95

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CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/149,223
FILING DATE: 09-NOV-93
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/012,990
FILING DATE: 29-JAN-93
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,341
FILING DATE: 09-NOV-92
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 32794
TELEPHONE: 312/474-6653
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1319 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Felis domesticus
DEVELOPMENTAL STAGE: Juvenile
HAPLOTYPE: Diploid
TISSUE TYPE: Ovary
CELL TYPE: Oocyte
FEATURE:
NAME/KEY: CDS
LOCATION: 26..1297
US-08-484-1588-17

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Query Match          43.9%; Score 22.4; DB 2; Length 1319;
Best Local Similarity 72.5%; Pred. No. 17;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

```

QY      7 GGCACGCGAGTTGGGAAAGCCTCTGCTGCATGCTGTCTC 46
          ||||| ||||| ||||| ||||| ||||| |||||
DB      1076 GCCTGCGATTTCGGGAAGCCATCTGTGCGCAGCTCTGTC 1037

```

Search completed: December 16, 2003, 19:05:22
Job time : 64 secs

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Template: 30ng genomic DNA
Primer: each 1.5 pmole
dNTPs: each 200 uM
Tag Polymerase: 0.3 units
Total Vol: 10 uL

Buffer:

MgCl2: 1.5mM
KCl: 50mM
Tris: 10mM
pH: 8.3

FEATURES

Prepared with primer pairs derived from M32315.

source

Location/Qualifiers
1..870
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

STS

primer_bind
272..477

primer_bind

complement(458..477)

BASE COUNT

157 a 246 c 279 g 188 t

ORIGIN

Query Match 100.0%; Score 51; DB 11; Length 870;
Best Local Similarity 100.0%; Pred. No. 2.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51

Db 175 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 225

RESULT 2
AR152033
LOCUS AR152033 2224 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 2 from patent US 6232446.
ACCESSION AR152033
VERSION AR152033.1 GI:15118083
KEYWORDS

SOURCE

Unknown.

REFERENCE

1 (bases 1 to 2224)

AUTHORS Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.

TITLE

TNF ligands

JOURNAL

Patent: US 6232446-A 2 15-MAY-2001;

FEATURES

Location/Qualifiers
1..2224
/organism="unknown"

BASE COUNT

435 a 698 c 689 g 402 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.1e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51

Db 1650 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 3
AR308134
LOCUS AR308134 2224 bp mRNA linear PAT 12-JUN-2003
DEFINITION Sequence 1 from patent US 6555111.
ACCESSION AR308134
VERSION AR308134.1 GI:31699179
KEYWORDS

SOURCE

Unknown.

ORGANISM

Unclassified.

REFERENCE 1 (bases 1 to 2224)

AUTHORS Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.
TITLE Method of inhibiting the cytotoxic effect of TNF with TNF
receptor-specific antibodies
JOURNAL Patent: US 6555111-A 1 29-APR-2003;
FEATURES Location/Qualifiers
source 1..2224
/organism="unknown"

BASE COUNT

435 a 698 c 689 g 402 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.1e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51

Db 1650 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 4

A78517

LOCUS

Sequence 1 from Patent EP0585939.

DEFINITION

A78517

ACCESSION

A78517.1 GI:6090179

VERSION

A78517.1

KEYWORDS

SOURCE

unidentified

ORGANISM

unidentified

REFERENCE

1 (bases 1 to 2253)

AUTHORS

Mett,I. and Wallach,D.

TITLE

TNF LIGANDS

JOURNAL

Patent: EP 0585939-A 1 09-MAR-1994;
YEDA RES & DEV (IL)

FEATURES

Location/Qualifiers
1..2253
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

CDS

90..1475
/note="unamed protein product"
/codon_start=1
/protein_id="CAB58915.1"
/db_xref="GI:6090180"

BASE COUNT

440 a 709 c 698 g 406 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2253;
Best Local Similarity 100.0%; Pred. No. 2.1e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51

Db 1650 AGCAGAGCGACGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 5
HSTNFR2S10
LOCUS HSTNFR2S10 2613 bp DNA linear PRI 31-JUL-1996
DEFINITION Human tumor necrosis factor receptor 2 (TNFR2) gene, exon 10 and
ACCESSION U52165
VERSION U52165.1 GI:1469539
KEYWORDS

SEGMENT 10 of 10
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS 1 (bases 1 to 2613)
Bellingier, C.P., White, P.S., Maris, J.M., Sulman, E.P., Jensen, S.J., Lepailler, D., Stallard, B.J., Goeddel, D.V., de Sauvage, F.J., and Brodeur, G.M.
TITLE Physical mapping and genomic structure of the human TNFR2 gene
JOURNAL Genomics 35 (1), 94-100 (1996)
MEDLINE 96293745
PUBMED 8661109
REFERENCE 2 (bases 1 to 2613)
Bellingier, C.P., White, P.S., Maris, J.M., Sulman, E.P., Jensen, S.J., Lepailler, D., Stallard, B.J., Goeddel, D.V., de Sauvage, F.J., and Brodeur, G.M.
TITLE Direct Submision
JOURNAL Submitted (25-MAR-1996) Christian P. Bellingier, Division of Oncology, ARC Rm. 902 D, Children's Hospital of Philadelphia, 324 South 34th Street, Philadelphia, PA 19104-4318, USA
FEATURES
source
1. 2613
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="1"
/map="1p36.2"
join(US2156.1:1..167,US2157.1:7..106,US2158.1:114..242,US2159.1:7..156,US2160.1:7..100,US2161.1:95..330,US2162.1:83..160,US2163.1:7..41,US2164.1:7..211,125..2613)
/product="tumor necrosis factor receptor"
join(US2156.1:90..167,US2157.1:7..106,US2158.1:114..242,US2159.1:7..156,US2160.1:7..100,US2161.1:95..330,US2162.1:83..160,US2163.1:7..41,US2164.1:7..211,125..405)
/codon_start=1
/product="tumor necrosis factor receptor"
/protein_id="AAC50622.1"
/db_xref="GI:1469541"
/translation="MAPVAVMALAVGLMMAALPNOVAFTPEAPPGSTCHLRKYDFOAMCCSKSPGMAKVFCTSDVCDSCDSTYTOIMNVPICSGSPCSSDOVEFOACTREONRCTCRPRGYCALSKQEGRLCAPLRKCRPGVAPRGTSIDVCKPCAPGTFSTSTSDICRPHQICNVVAIPENASMDVCTSTSTSRMAPGVHLFQPVSTRSHTQPTPEPSTASTSFLPMGSPSPASSTGDFALPVLIVGVNALLIIIVNVCVMTQVKKKPLCLQREKAVPHLPADKARGTQGEQOHLITLTAASSSSSSSSASALDRAPRTNQPQAPGVKAGAGARASTGSSPGGQHTQVNCIVVAGSSSDHSSGSSQASSTMDPTDSSPSRSPDEQVPFKKCARRSQLETFETLLGSTERPLP LGVDPAMKSPS"
join(US2157.1:7..112,US2158.1:1..248,US2159.1:1..200,US2160.1:1..106,US2161.1:1..336,US2162.1:1..218,US2163.1:1..58,US2164.1:1..234,1..2613)
/gene="TNFR2"
<1..124
/gene="TNFR2"
/number=9
125..2613
/gene="TNFR2"
/number=10
BASE COUNT 553 a 750 c 742 g 568 t
ORIGIN
Query Match 100.0%; Score 51; DB 9; Length 2613;
Best Local Similarity 100.0%; Pred. No. 2e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGCTCTT 51
|||||
Db 580 AGCAGAGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGCTCTT 630
|||||
RESULT 6 3380 bp DNA linear STS 14-JUN-1996
LOCUS G26865

DEFINITION human STS SHGC-31494, sequence tagged site.
ACCESSION G26865
VERSION G26865.1 GI:1375115
KEYWORDS STS; STS sequence; primer; sequence tagged site.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS 1 (bases 1 to 3380)
Myers, R.M.
JOURNAL Unpublished (1995)
COMMENT
Contact: Richard M. Myers
Stanford Human Genome Center (SHGC)
Stanford University School of Medicine
Department of Genetics, M-344, Stanford, CA 94305, USA
Tel: 4157259687
Fax: 4157259689
Email: myers@shgc.stanford.edu
Primer A: CCCACACACAGACTCTGA
Primer B: CACAGAGATCAGGAGACTTGC
STS size: 201
PCR Profile:
Initial incubation: 94 degrees C for 90 seconds
Denaturation: 94 degrees C for 15 seconds
Annealing: 62 degrees C for 23 seconds
Polymerization: 72 degrees C for 30 seconds
PCR Cycles: 30
Thermal Cycler: Perkin Elmer 9600
Protocol:
Template: 25 ng
Primer: each 1 uM
dNTPs: each 200 uM
Tag Polymerase: 0.05 units/uL
Total Vol: 10 uL
Buffer:
MgCl2: 2.5 mM
KCl: 50 mM
Tris-HCl: 20 mM
pH: 8.3
Prepared with primer pairs provided by Sandoz, derived from M3215
-- Washington University/Merck EST sequence.
FEATURES
source
1. 3380
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/map="1"
1561..1761
1561..1580
primer_bind complement(1741..1761)
BASE COUNT 703 a 1029 c 1004 g 644 t
ORIGIN
Query Match 100.0%; Score 51; DB 11; Length 3380;
Best Local Similarity 100.0%; Pred. No. 1.9e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGCTCTT 51
|||||
Db 1650 AGCAGAGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGCTCTT 1700
|||||
RESULT 7 3683 bp DNA linear PAT 25-SEP-2002
LOCUS AR215688
DEFINITION Sequence 3 from patent US 6410324.
ACCESSION AR215688
VERSION AR215688.1 GI:23313944

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE
Unclassified.
1 (bases 1 to 3683)

AUTHORS
Bennett,C.F. and Watt,A.T.

TITLE
Antisense modulation of tumor necrosis factor receptor 2 expression

JOURNAL
Patent: US 6410324-A 3 25-JUN-2002;

FEATURES
Location/Qualifiers
source 1..3683
/organism="unknown"

BASE COUNT 781 a 1098 c 1086 g 718 t

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGTCTCT 51
1650 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGTCTCT 1700

RESULT 8
AX333705 3683 bp DNA linear PAT 09-JAN-2002
LOCUS Sequence 4214 from Patent WO0134629.
DEFINITION AX333705
ACCESSION AX333705
VERSION AX333705.1 GI:18124424
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS
1 Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horigan,S., Soppet,D.R. and Weaver,Z.
TITLE Cancer gene determination and therapeutic screening using signature
JOURNAL Patent: WO 0194629-A 4214 13-DEC-2001;
FEATURES
source 1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

BASE COUNT 781 a 1098 c 1086 g 718 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGTCTCT 51
1650 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGTCTCT 1700

RESULT 9
AX348016 3683 bp DNA linear PAT 06-FEB-2002
LOCUS Sequence 49 from Patent EP1172444.
DEFINITION AX348016
ACCESSION AX348016
VERSION AX348016.1 GI:18614126
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS
1 Schreiber,S., Hampe,J. and Mascheretti,S.
TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr
receptor II and method for detecting non-responders to anti-tnf

JOURNAL
therapy EP 1172444-A 49 16-JAN-2002;
Patent: Conaris Research Institute GmbH (DE)
Location/Qualifiers
source 1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

CDS
90..1475
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/codon_start=1
/protein_id="CAD22795.1"
/db_xref="GI:18614127"
/translation="MAPVAVVAALAVGLIELMAAALPAOVAFPYAPPEPGSTCLRE
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PVSTRSGHTOPTPESTAPSTSLPMPSPSPAEGSTGDAIPVGLIYGVTAALGLII
GVNVCVIMTVQKKRPLCLQREAKVPHLPADPARGTQGEQQLLITAPSSSSLESS
ASALDRAPTRNPOAPGVASGAEARASTGSSDSPGGHGTQVNVTCIVNVCSSD
HSSQSSQASSTMGDTDSPPESPDEQVPFSKECAPRSQLETPELTLGSTEKPLP
LGVPDAGMKPS"

mat_peptide 156
BASE COUNT 781 a 1098 c 1086 g 718 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGTCTCT 51
1650 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTGTCTCT 1700

RESULT 10
AX348018 3683 bp DNA linear PAT 06-FEB-2002
LOCUS Sequence 51 from Patent EP1172444.
DEFINITION AX348018
ACCESSION AX348018
VERSION AX348018.1 GI:18614128
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS
1 Schreiber,S., Hampe,J. and Mascheretti,S.
TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr
receptor II and method for detecting non-responders to anti-tnf
therapy
JOURNAL Patent: EP 1172444-A 51 16-JAN-2002;
Patent: Conaris Research Institute GmbH (DE)
Location/Qualifiers
source 1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

CDS
90..1475
/note="unnamed protein product"
/codon_start=1
/protein_id="CAD22796.1"
/db_xref="GI:18614129"
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YVDQACTRQNRICTRPGWYCALSQEGRLCAPLRKPGVGVARPGETSDV
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PVSTRSGHTOPTPESTAPSTSLPMPSPSPAEGSTGDAIPVGLIYGVTAALGLII
GVNVCVIMTVQKKRPLCLQREAKVPHLPADPARGTQGEQQLLITAPSSSSLESS
ASALDRAPTRNPOAPGVASGAEARASTGSSDSPGGHGTQVNVTCIVNVCSSD
HSSQSSQASSTMGDTDSPPESPDEQVPFSKECAPRSQLETPELTLGSTEKPLP
LGVPDAGMKPS"

mat_peptide 156

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BASE COUNT      780 a      1098 c      1087 g      718 t
ORIGIN
Query Match      100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCATGCTGTGTCCTCT 51
      1650 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCATGCTGTGTCCTCT 1700

RESULT 11
LOCUS      AX348020      3683 bp      DNA      linear      PAT 06-FEB-2002
DEFINITION      Sequence 53 from Patent Ep1172444.
ACCESSION      AX348020
VERSION      AX348020.1 GI:18614130
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS      Schreiber, S., Hampe, J. and Mascheretti, S.
TITLE      Diagnostic use of polymorphisms in the gene coding for the tnfr
      receptor II and method for detecting non-responders to anti-tnf
      therapy
JOURNAL      Patent: EP 1172444-A 53 16-JAN-2002;
      Conaris Research Institute GmbH (DE)
FEATURES
source
      1..3683
      /organism="Homo sapiens"
      /mol_type="genomic DNA"
      /db_xref="taxon:9606"
      90..1475
      /note="unnamed protein product"
      /codon_start=1
      /protein_id="CAD22797.1"
      /db_xref="GI:18614131"
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      DQVETQACTREONRICTCRPGWYCALSKQEGRLCAPLRKPGFVARPGETSDVY
      CKPCAPGFTSNTSTSDICRPHQICNVVAIPGNASMDAVCTSPTRMAGAVLIPQ
      PVSTRSOHTOPTPEPSTAPSTSLPMPGSPPARSGTGFALPGLIVGVALGLIIT
      GVNNCVIMTQYKKKPLCIQRAKAPHLPADKARGTGEGEOHLITAPSSSSSISS
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      LGVPDAGMKPS"

CDS
      mat_peptide 780 a      1098 c      1088 g      717 t
BASE COUNT
ORIGIN

Query Match      100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCATGCTGTGTCCTCT 51
      1650 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCATGCTGTGTCCTCT 1700

RESULT 12
LOCUS      AX698020      3683 bp      DNA      linear      PAT 02-APR-2003
DEFINITION      Sequence 1 from Patent WO03009864.
ACCESSION      AX698020
VERSION      AX698020.1 GI:29499058
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

BASE COUNT      780 a      1098 c      1088 g      717 t
ORIGIN

Query Match      100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCATGCTGTGTCCTCT 51
      1650 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCATGCTGTGTCCTCT 1700

RESULT 13
LOCUS      HUNNFR      3683 bp      mRNA      linear      PRI 07-JAN-1995
DEFINITION      Human tumor necrosis factor receptor mRNA, complete cds.
ACCESSION      M32315
VERSION      M32315.1 GI:189185
KEYWORDS      c-myc proto-oncogene; necrosis factor receptor.
SOURCE      Homo sapiens
ORGANISM      Homo sapiens
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS      Smith, C.A., Davis, T., Anderson, D., Solam, L., Beckmann, M.P.,
      Jerzy, R., Dover, S.K., Cosman, D. and Goodwin, R.G.
TITLE      A receptor for tumor necrosis factor defines an unusual family of
      cellular and viral proteins
JOURNAL      Science 248 (4958), 1019-1023 (1990)
MEDLINE      90260639
PIBMED      2160731
COMMENT      Original source text: Homo sapiens lung cDNA to mRNA.
      Draft entry and computer-readable sequence for [1] kindly submitted
      by C.A.Smith, 30-MAR-1990, for release after publication.

FEATURES
source
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      /organism="Homo sapiens"
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      /cell_type="fibroblast"
      /tissue_type="lung"
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      /gene="tnfr"
      90..1475
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Query Match
Best Local Similarity 100.0%; Score 51; DB 9; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1650 AGCAGAGCGACGAGTGGGAAAGCTCTGCTGCCATGTGTGCCTCT 51

RESULT 14
BC042167 LOCUS BC042167 2282 bp mRNA linear PRI 09-JAN-2003
DEFINITION Homo sapiens, similar to tumor necrosis factor receptor superfamily, member 1B, clone IMAGE:5022068, mRNA, partial cds.
ACCESSION BC042167 GI:27503828
VERSION
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 2282)
Strausberg,R.
Direct Submission
Submitted (02-JAN-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: http://mgc.ncl.nih.gov
Contact: MGC help desk
Email: cgabbs-re@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: National Institutes of Health Intramural Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: http://www.nisc.nih.gov/
Contact: nisc.mgc@nih.gov
Ahter,N., Ayale,K., Beckstrom-Sternberg,S.W., Benjamin,B., Blakesley,R.W., Bouffard,G.G., Breun,K., Brinkley,C., Brooks,S., Dietrich,N.L., Granite,S., Guan,X., Gupta,D., Haghighi,P., Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Latic,P., Legaspi,R., Maduro,Q.L., Masello,C., Maskeri,B., Mastrian,S.D., McCloskey,I.C., McQuell,J., Pearson,R., Staniripov,S., Thomas,P.J., Touchman,W., Tsurgenc,C., Vogt,J.L., Walker,M.A., Weetbedy,K.D., Wiggins,L., Young,A., Zhang,L.-H. and Green,E.D.

REMARK COMMENT

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov Series: IDAL Plate: 44 Row# Column: 16

FEATURES	source
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 2331265	location/Qualifiers
1..2282	

FEATURES	source
gene	gene
CDS	CDS
ORIGIN	BASE COUNT 459 a 706 c 708 g 409 t
Query Match	Best Local Similarity 62.1% Score 32; DB 9; Length 2282;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Db 1569	GAAAGCCTCTGCTGCATGAGTGTGCTCT 1600
LOCUS	20 GAAAGCCTCTGCTGCATGAGTGTGCTCT 51
DEFINITION	Human tumor necrosis factor receptor II (TNFRFII) mRNA, complete cds.
ACCESSION	M55994 M38549
VERSION	M55994.1 GI:339757
KEYWORDS	glycoprotein, nerve growth factor receptor related; transmembrane protein; tumor necrosis factor receptor; tumor necrosis factor receptor II.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 2394)
AUTHORS	Kohno, T., Brewer, M. T., Baker, S. L., Schwartz, P. E., King, M. W., Hale, K. K., Squires, C. H., Thompson, R. C. and Vannice, J. L.
TITLE	A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 87 (21), 8331-8335 (1990)
COMMENT	ORIGIN source text: Human histiocytic lymphoma cell line U937, CDNA to mRNA.
FEATURES	location/Qualifiers
source	1. 2394
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	/cell_line="U937"
	/cell_type="histiocytic lymphoma"
	1. 2394
	/gene="TNFRFII"
	93..1478

REFERENCE	2 (bases 1 to 3692)
AUTHORS	Strausberg,R.
TITLE	Direct Submission
JOURNAL	Submitted (02-JUN-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
REMARK	NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT	Contact: MGC help desk Email: cgabds-remail.nih.gov Tissue Procurement: Dr. James R. Lupski cDNA Library Preparation: Life Technologies, Inc. cDNA library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305 Web site: http://www-sbgc.stanford.edu Contact: (Dickson, Mark) mcd@paxil.stanford.edu Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.
FEATURES	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAC Plate: 110 Row: n Column: 2 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 2312365 Location/Qualifiers 1..3692 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="MGC:60023 IMAGE:6198614" /tissue_type="Peripheral Nervous System, sympathetic trunk" /clone_lib="Lupski_sym pathetic_trunk" /lab_host="DH10B" /note="Vector: pCMV-SPORT6" 1..3692 /gene="TNFRSF1B" /note="SYNonyms: CD120b, TNF-R-II, TNFR, TNFR2, TNFR80, p75NRP, TBPii, TNF-R75, p75" /db_xref="LOCUSID:7133" /db_xref="MIM:191191" 88..1473 /codon_start=1 /product="tumor necrosis factor receptor 2, precursor" /protein_id="AAHS2977.1" /db_xref="GI:31419790" /db_xref="Locustid:7133" /translation="MAPVAWMAALAVGLEMAAHALPAQVAFPTPYAPEPGSTCLRLRYVDTOTACMGCSKSPGCHAKVCFTKSDSCEDSTYTLDMNVCELSGSGRCS DOVETOTACMRONRICRPGWCATSKDSGGCRICAPLRKRGEGVARPGETINDDVYCKRPARETPNTSSITDICRPHQCYNVALPGNASMANVCSTSPISMAGAYILPFGVNSRGTQTPPEPSTABSTFLPLPWGPSPAGSTGDFAIPVLGLIVGATLGLIITPVASCTVMTGVKKRKPLDLORAEARPHLPADKARTQGPEOQHLLITAPSSSSILESSASALDRRAPTRNQPOAGEVASGAERASTGSSEDPGGTGTVNYTCIYNVSSSSISS HSSCGSAASSITMGDITDSSPSSEPKBOVPFSKECAFRSLPETILLGSTEEKPLHL LQVDAAKMKS"
CDS	
gene	
BASE COUNT	791 a 1098 c 1085 g 718 t
ORIGIN	
Query Match	62.7%; Score 32; DB 9; Length 3692;
Best Local Similarity	100.0%; Pred. No. 5.2e-07;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0,	
Oy	20 GGAAAGCCTCTGCTGCCATGAGTGTCCTCT 51
Dd	1667 GGAAAGCCTCTGCTGCCATGAGTGTCCTCT 1698
RESULT 17	
AX348013	23 bp DNA linear PAT 06-FEB-2002
LOCUS	Sequence 46 from Patent EP1122444.
DEFINITION	

ACCESSION AX348013
VERSION AX348013.1 GI:18614123
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE
1
AUTHORS Schreiber, S., Hampe, J. and Mascheretti, S.
TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr receptor II and method for detecting non-responders to anti-tnf therapy
JOURNAL Patent: EP 1172444-A 46 16-JAN-2002;
Conaris Research Institute GmbH (DE)
FEATURES
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ORIGIN
Query Match 43.1%; Score 22; DB 6; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 CCTCTGCTGCATGATGTGTCC 47
1 CCTCTGCTGCATGATGTGTCC 22
Db
RESULT 18
A26415 2339 bp DNA linear PAT 26-APR-1995
LOCUS
DEFINITION CDNA fragment for (75KD TNF-BP) tumor necrosis factor binding
ACCESSION A26415
VERSION A26415
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE
1 (bases 1 to 2339)
AUTHORS Brochhaus, M., Dembic, Z., Gentz, R., Leese, W., Loetscher, H. and Schlaeger, E. J.
TITLE TNF-binding proteins
JOURNAL Patent: EP 0417563-A 27 20-MAR-1991;
F. HOFMANN-LA ROCHE AG
FEATURES
source
1..2339
/organism="synthetic construct"
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/db_xref="GI:904971"
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TMDTSPSPSPSEPKDQVFPFSKECAFRSOLTEPILSTETEKPLPLGVDPAGMKPS
"BASE COUNT 494 a 720 c 685 g 440 t
ORIGIN
Query Match 41.2%; Score 21; DB 6; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
1372 GGAAGCCTCTGCTGCCATGG 1392
Db
RESULT 19
S63368 3492 bp mRNA linear PRI 06-MAR-2001
LOCUS Homo sapiens tumor necrosis factor receptor mRNA, partial cds.
DEFINITION
ACCESSION S63368
VERSION S63368.1 GI:235648
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 3492)
AUTHORS Dembic, Z., Loetscher, H., Gubler, U., Pan, Y. C., Lahm, H. W., Gentz, R., Brochhaus, M. and Leese, W.
TITLE Two human TNF receptors have similar extracellular, but distinct intracellular, domain sequences
JOURNAL Cytokine 2 (4), 231-237 (1990)
MEDLINE 91370630
PUBMED 1966549
REMARK Genbank staff at the National Library of Medicine created this entry [NCBI g1bbag 63368] from the original journal article.
This sequence comes from Figure 1.
FEATURES
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DAVCTSTPTSRMAGVAILPQVSTRSOHTPTPESTASTSLFLPMGSPSPAGS
TGDFALPVLITGVNVALGILLITGVNVCVMTQVKKPLCLQREAKVPHLPADKARCTG
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SPGGHGTQVNTCTVNVCSDDHSSQCSQSSMTGDDSSPSPSPSEPKDQVFPFSKEC
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BASE COUNT 757 a 1031 c 1006 g 698 t
ORIGIN
Query Match 41.2%; Score 21; DB 9; Length 3492;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 GGAAGCCTCTGCTGCCATGG 40
1472 GGAAGCCTCTGCTGCCATGG 1492
Db
RESULT 20
AR215702 15602 bp DNA linear PAT 25-SEP-2002
LOCUS Sequence 17 from patent US 6410324.
DEFINITION
ACCESSION AR215702
VERSION AR215702.1 GI:23313958
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 15602)
AUTHORS Bennett, C. F. and Watt, A. T.
TITLE Antisense modulation of tumor necrosis factor receptor 2 expression

JOURNAL Patent: US 6410324-A 17-25-JUN-2002;
FEATURES Location/Qualifiers
source 1..15602
/organism="unknown"
BASE COUNT 3439 a 4290 c 4227 g 3646 t
ORIGIN

Query Match 41.2%; Score 21; DB 6; Length 15602;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTGCTGCCATGG 40
|||||
Db 11202 GGAAAGCCTGCTGCCATGG 11222

RESULT 21
AY264804 45584 bp DNA linear PRI 10-APR-2003
DEFINITION Homo sapiens tumor necrosis factor receptor superfamily, member 1B
(TNFRSF1B) gene, complete cds.
ACCESSION AY264804
VERSION AY264804.1 GI:29725699
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 45584)
Rieder,M.J., Livingston,R.J., Daniel,M.R., Chung,M.-W.,
Miyamoto,K.E., Nguyen,C.P., Nguyen,D.A., Poel,C.L., Robertson,P.D.,
Schackwitz,W.S., Sherwood,J.K., Wiltrik,L.A. and Nickerson,D.A.
Direct Submission
Submitted (28-MAR-2003) Genome Sciences, University of Washington,
1705 NE Pacific Seattle, WA 98195, USA
COMMENT To cite this work please use: NIEHS-SNPs, Environmental Genome
Project, NIEHS ES15478, Department of Genome Sciences, Seattle, WA
(URL: <http://esg.gs.washington.edu>).
FEATURES Location/Qualifiers
source 1..45584
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
repeat_region 140..271
/rpt_family="I2"
/rpt_type=dispersed
variation 219
/frequency="0.01"
/replace="C"
225
/frequency="0.12"
/replace="a"
variation 248
/frequency="0.03"
/replace="C"
249
/frequency="0.04"
/replace="a"
variation 779..795
/frequency="0.01"
/replace="a"
793
/frequency="0.01"
/replace="C"
variation 807
/frequency="0.01"
/replace="C"
842
/frequency="0.02"
/replace="C"
1184..1217
/rpt_family="MIR"
/rpt_type=dispersed

repeat_region 1224..1521
/rpt_family="Alu"
/rpt_type=dispersed
variation 1261
/frequency="0.01"
/replace="a"
1550
/frequency="0.02"
/replace="g"
1596
/frequency="0.03"
/replace="a"
1626
/frequency="0.01"
/replace="t"
1692..1706
/frequency="0.25"
/replace="a"
1815..1834
/frequency="0.99"
/replace="a"
1847..1849
/frequency="0.97"
/replace="t"
1962..44212
/gene="TNFRSF1B"
join(1962..2136,23759..23858,25920..26048,26756..26905,
27413..27506,27845..28080,28937..29014,29566..29600,
36951..37155,41724..44212)
/gene="TNFRSF1B"
/product="tumor necrosis factor receptor superfamily,
member 1B"
1976
/gene="TNFRSF1B"
/frequency="0.01"
/replace="t"
1992
/gene="TNFRSF1B"
/frequency="0.01"
/replace="t"
2023..2030
/gene="TNFRSF1B"
/frequency="0.98"
/replace="a"
join(2059..2136,23759..23858,25920..26048,26756..26905,
27413..27506,27845..28080,28937..29014,29566..29600,
36951..37155,41724..42004)
/gene="TNFRSF1B"
/codon_start=1
/product="tumor necrosis factor receptor superfamily,
member 1B"
/protein_id="AA089076.1"
/db_xref="GI:29725900"
/translation="MAPVAWALAVGLELMAAALPAQVAFPTPAPEPGSTGRLE
YVDQFAQCCSKSPGQAKVFCYKTSIDTVCDSCEDSTYQLMNMEVCCSGRCSS
DOVEQACTREONRICTRGWYCALSKSGCRCLCAPLKCRPGVARGPETERSDVY
CKPCAPGTFNNTSSTDICRPHQICNVVAIPGNASMDAVCTSGTSPSMAGAYHLQ
PVSTRSGHTQPTPEPSTAFSTSLPLPMPGSPRAGSGDPAFLPYGLVGYTALGLLI
GVNVCVMTQYKRPCLQREBAKVHLPADKARSTQPEQQLHITAPSSSSLESS
ASALDRAPTRNOPQAPGVASGAGARASTGSDSPGGGTGVNVTCTVNVSSSD
HSSQSSQASASTMGDTDSSPSSEPKDQVFPFSKCECAFPSQLETPETLGSTERKPLP
LGVPDAQMKPS"
2212
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/frequency="0.02"
/replace="g"
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/frequency="0.01"
/replace="C"
2751
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/frequency="0.02"

[illegible]

	Query Match	Similarity	40.2%;	Score 21;	DB 9;	Length 45584;
	Best Local	Similarity	100.0%;	Pred. No. 0.29;		
	Matches	21;	Conservative	0;	Mismatches	0;
					Indels	0;
					Gaps	0;
QY	20	GGAAAGCCTCTGCTGCCATG	40			
DB	42198	GGAAAGCCTCTGCTGCCATG	42218			

RESULT 22				
HS118D24/c				
LOCUS	HS118D24	115602 bp	DNA	linear PRI 04-MAR-2003
DEFINITION	Human DNA sequence from clone RP5-118D24 on chromosome			
ACCESSION	103611-36.33, complete sequence.			

ACCESSION	AL031276	
VERSION	AL031276.1	GI:3947780
KEYWORDS	HTG.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	

REFERENCE 1 (pages 1 to 115602)
AUTHORS Heath, P.
TITLE Direct Submission
JOURNAL Submitted (04-MAR-2003) Wellcome Trust Sanger Institute, Hinxton,
Oxfordshire, G10 3BA, UK
E-mail: sanger@sanger.ac.uk

COMMENT
On Dec 2, 1998 this sequence replaced g1:3724207.
humquery@anger.ac.uk Clone requests: clonerequestsanger.ac.uk

Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: <http://www.sanger.ac.uk>
Contact: humquerry@sanger.ac.uk

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em.; EMBL; SW; SWISSPROT; Tr.; TREMBL; Wp.; WORMPEP. Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/chr1>

RP5-111824 is from the library RPCT-5 constructed by the group of Plater de Jong. For further details see <http://www.chori.org/dacpac/home.htm>

VECTOR: pCYPAC2.

FEATURES	Location/Qualifiers
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/mol_type="genomic DNA"  
/db_xref="RSPD:RPCLP704D241118  
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/chromosome="1"
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ORIGIN				

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Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
Db 104401 GGAAGCCTCTGCTGCCATGG 104381

RESULT 23
AL355998 122105 bp DNA linear HTG 07-SEP-2001
LOCUS Homo sapiens chromosome 1 clone RP5-1125M1, *** SEQUENCING IN
DEFINITION PROGRESS ***
ACCESSION AL355998.9 GI:15523662
VERSION HTG; HTGS_PHASE2; HTGS_CANCELLED.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1 Smith, M.
Direct Submission
Submitted (05-SEP-2001) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk Clone
requests: clonerequest@sanger.ac.uk
On Sep 7, 2001 this sequence version replaced gi:13897067.
----- Genome Center
Center: Sanger Centre
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: dj1125M1
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Sequencing vector: plasmid; 108752; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Consensus quality: 121044 bases at least Q40
Consensus quality: 121310 bases at least Q30
Consensus quality: 121451 bases at least Q20
Insert size: 122105; sum-of-contigs
Insert size: 142339; 6.8% error; agarose-fp
Quality coverage: 8.74x in Q20 bases; sum-of-contigs Quality
coverage: 7.58x in Q20 bases; agarose-fp

* NOTE: This is a 'working draft' sequence.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.

FEATURES
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="1"
/clone="RP5-1125M1"
/clone_11b="RPC1-5"
1. .122105
misc_feature
/note="assembly fragment:02659"
BASE COUNT 27894 a 31136 c 32658 g 30417 t
ORIGIN

Query Match 41.2%; Score 21; DB 2; Length 122105;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
Db 114825 GGAAGCCTCTGCTGCCATGG 114845

RESULT 24
BX510650 153904 bp DNA linear HTG 15-MAY-2003
LOCUS Homo sapiens chromosome 1 clone RP11-2667, *** SEQUENCING IN
DEFINITION PROGRESS ***; 15 unordered pieces.
ACCESSION BX510650.2 GI:30840317
VERSION HTG; HTGS_PHASE1; HTGS_CANCELLED.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1 McLeay, K.
Direct Submission
Submitted (14-MAY-2003) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On May 16, 2003 this sequence version replaced gi:30722033.
----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: ba2667
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Chemistry: Dye-terminator; 100% of reads
Consensus quality: 147937 bases at least Q40
Consensus quality: 148717 bases at least Q30
Consensus quality: 149207 bases at least Q20
Insert size: 152504; sum-of-contigs
Insert size: 162837; 8.8% error; agarose-fp
Quality coverage: 6.71x in Q20 bases; sum-of-contigs Quality
coverage: 6.61x in Q20 bases; agarose-fp

* NOTE: This is a 'working draft' sequence. It currently
* consists of 15 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 16251: contig of 16251 bp in length
* 16252 gap of 100 bp
* 16352 contig of 3914 bp in length
* 20265 gap of 100 bp
* 20365 gap of 100 bp
* 20366 27411: contig of 7046 bp in length
* 27412 gap of 100 bp
* 27512 contig of 4779 bp in length
* 32290: contig of 100 bp
* 32390: gap of 100 bp
* 34723: contig of 2333 bp in length
* 34824 gap of 100 bp
* 34824 37675: contig of 2852 bp in length
* 37676 gap of 100 bp
* 37776 gap of 8098 bp in length
* 45873: contig of 100 bp
* 45874 gap of 100 bp
* 45974 gap of 100 bp
* 51965: contig of 5992 bp in length
* 51966 gap of 100 bp
* 52066 56024: contig of 3959 bp in length
* 56025 gap of 100 bp
* 56125 gap of 100 bp
* 56125 71177: contig of 15053 bp in length
* 71177 gap of 100 bp
* 71278 gap of 100 bp
* 73321: contig of 2044 bp in length
* 73322 gap of 100 bp
* 73421 gap of 100 bp
* 73422 76842: contig of 3421 bp in length
* 76843 gap of 100 bp
* 76843 81348: contig of 4406 bp in length
* 81348 gap of 100 bp
* 81349 gap of 100 bp
* 81449 137011: contig of 55563 bp in length

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FEATURES
 * 137012 137111: gap of 100 bp
 * 137112 153904: config of 16793 bp in length.
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     /mol_type="genomic DNA"
     /db_xref="taxon:9606"
     /chromosome="11"
     /clone="RP11-26G7"
     /clone_lib="RPCT-11.1"
     1. 16251
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        fragment_chain:1
        clone_end:SP6
        vector_side:left"
        16352..20265
           /note="assembly: fragment:00234
           fragment_chain:1"
           20366..27411
              /note="assembly: fragment:01828
              fragment_chain:2"
              27512..32290
                 /note="assembly: fragment:02578
                 fragment_chain:2"
                 32391..34723
                    /note="assembly: fragment:02283
                    fragment_chain:2"
                    34824..37675
                       /note="assembly: fragment:00610
                       fragment_chain:2"
                       37776..45873
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                          fragment_chain:2"
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                                      /note="assembly: fragment:00756
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                                         /note="assembly: fragment:00555
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                                         76943..81348
                                            /note="assembly: fragment:00780"
                                            81449..137011
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                                               137112..153904
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ORIGIN
Query Match      41.2%; Score 21; DB 2; Length 153904;
Best local Similarity 100.0%; Pred. No. 0.21;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      20 GGAAAGCCTCTGCTGCCATGG 40
Db      61301 GGAAAGCCTCTGCTGCCATGG 61321
RESULT 25
AC023251
LOCUS      AC023251          187877 bp    DNA    linear    HTG 24-AUG-2002

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DEFINITION Homo sapiens chromosome 1 clone RP11-353D18 map 1, WORKING DRAFT
SEQUENCE, 25 unordered pieces.
ACCESSION AC023251
VERSION AC023251.3 GI:8076833
KEYWORDS HTG; HTGS; PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE
  Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,
  Anderson, S., Baldwin, J., Barna, N., Beckert, R., Beda, F.,
  Boguslavsky, L., Boukhgalter, B., Brown, A., Burkett, G., Castle, A.,
  Choe, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P.,
  Dearrellano, K., Dewar, K., Domino, M., Doyle, M., Fensholt, J.,
  Ferreira, P., Fitzhugh, W., Forrest, C., Gage, D., Galagan, J.,
  Gardyna, S., Grant, G., Hagos, B., Hearford, A., Horton, L.,
  Howland, J. C., Johnson, R., Jones, C., Kam, L., Karatas, A., Klein, J.,
  Landers, T., Lehotzky, J., Levine, R., Lien, C., Liu, G., Locke, K.,
  MacDonald, P., Margulis, N., McEwan, P., McGurk, A., McKernan, K.,
  McPheters, R., Meldrum, J., Menus, L., Morrow, J., Naylor, J.,
  Norman, C. H., O'Connor, T., O'Donnell, P., Olivari, T. M., Peterson, K.,
  Pierre, N., Pisani, C., Pollara, V., Raymond, C., Riley, R., Rothman, D.,
  Roy, A., Santos, R., Severy, P., Spencer, B., Stange-Thomann, N.,
  Stojanovic, N., Sudrmanian, A., Talamas, D., Testaye, S., Theodore, J.,
  Tirrell, A., Vassiliev, H., Viel, R., Vo, A., Wu, X., Wyman, D., Ye, W. J.,
  Zimmer, A. and Zody, M.
  Direct Submission
  Submitted (10-FEB-2000) Whitehead Institute/MIT Center for Genome
  Research, 320 Charles Street, Cambridge, MA 02141, USA
  3 (bases 1 to 187877)
REFERENCE
  Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,
  Anderson, S., Baldwin, J., Barna, N., Bastien, V., Beda, F.,
  Boguslavsky, L., Boukhgalter, B., Brown, A., Burkett, G.,
  Camogliano, A., Castle, A., Choe, Y., Colangelo, M., Collins, S.,
  Collymore, A., Cooke, P., Dearrellano, K., Dewar, K., Diaz, J. S.,
  Dodge, S., Domino, M., Doyle, M., Ferreira, P., Fitzhugh, W., Gage, D.,
  Galagan, J., Gardyna, S., Ginde, S., Goyette, M., Graham, L.,
  Grand-Pierre, N., Grant, G., Hagos, B., Hearford, A., Horton, L.,
  Howland, J. C., Iliev, I., Johnson, R., Jones, C., Kam, L., Karatas, A.,
  Klein, J., Larocque, K., Lamazares, R., Landers, T., Lehotzky, J.,
  Levine, R., Lien, C., Liu, G., Locke, K., MacDonald, P., Margulis, N.,
  McCarthy, M., McEwan, P., McGurk, A., McKernan, K., McPheters, R.,
  Meldrum, J., Menus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J.,
  Murphy, T., Naylor, J., Norman, C. H., O'Connor, T., O'Donnell, P.,
  O'Neil, D., Olivari, T. M., Oliver, J., Peterson, K., Pierre, N.,
  Pisani, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D.,
  Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B.,
  Stange-Thomann, N., Stojanovic, N., Sudrmanian, A., Talamas, J.,
  Testaye, S., Theodore, J., Tirrell, A., Travers, M., Trigglio, J.,
  Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J.,
  Young, G., Zainoun, J., Zimmer, A. and Zody, M.
  Direct Submission
  Submitted (24-AUG-2002) Whitehead Institute/MIT Center for Genome
  Research, 320 Charles Street, Cambridge, MA 02141, USA
  On May 25, 2000 this sequence version replaced g1:7139786.
  All repeats were identified using RepeatMasker:
  Smit, A.F.A. & Green, P. (1996-1997)
  http://ftp.genome.washington.edu/RM/RepeatMasker.html
  ----- Genome Center
  Center: Whitehead Institute/ MIT Center for Genome Research
  Center code: WIBR
  Web site: http://www-seq.wi.mit.edu
  Contact: sequence_submissions@genome.wi.mit.edu
  ----- Project Information
  Center project name: 16342
  Center clone name: 353_D_18
  ----- Summary Statistics
  Sequencing vector: M13; M77815; 100% of reads

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Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.960731
 Consensus quality: 177330 bases at least Q40
 Consensus quality: 182502 bases at least Q30
 Consensus quality: 18382 bases at least Q20
 Insert size: 188000; agarose-fp
 Quality coverage: 4.9 in Q20 bases; agarose-fp
 Quality coverage: 4.9 in Q20 bases; sum-of-coverage

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 25 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

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1      1587: contig of 1587 bp in length
*      1588      1687: gap of 100 bp
*      1688      3808: contig of 2121 bp in length
*      3809      3908: gap of 100 bp
*      3909      6391: contig of 2483 bp in length
*      6392      6491: gap of 100 bp
*      6492      8438: contig of 1947 bp in length
*      8439      8538: gap of 100 bp
*      8539      11095: contig of 2557 bp in length
*      11096      11195: gap of 100 bp
*      11196      14256: contig of 3061 bp in length
*      14257      14356: gap of 100 bp
*      14357      18925: contig of 4559 bp in length
*      18926      19025: gap of 100 bp
*      19026      22429: contig of 3404 bp in length
*      22430      22529: gap of 100 bp
*      22530      27710: contig of 5181 bp in length
*      27711      27810: gap of 100 bp
*      27811      33955: contig of 6145 bp in length
*      33956      34055: gap of 100 bp
*      34056      39058: contig of 5003 bp in length
*      39059      39158: gap of 100 bp
*      39159      44172: contig of 5014 bp in length
*      44173      44272: gap of 100 bp
*      44273      50808: contig of 6556 bp in length
*      50809      50908: gap of 100 bp
*      50909      57062: contig of 6154 bp in length
*      57063      57162: gap of 100 bp
*      57163      64064: contig of 6902 bp in length
*      64065      64164: gap of 100 bp
*      64165      70384: contig of 6220 bp in length
*      70385      70484: gap of 100 bp
*      70485      77931: contig of 7447 bp in length
*      77932      78031: gap of 100 bp
*      78032      85239: contig of 7208 bp in length
*      85240      85339: gap of 100 bp
*      85340      93719: contig of 8380 bp in length
*      93720      93819: gap of 100 bp
*      93820      102274: contig of 8455 bp in length
*      102275      102374: gap of 100 bp
*      102375      113880: contig of 11516 bp in length
*      113891      113990: gap of 100 bp
*      113991      124382: contig of 10392 bp in length
*      124383      124482: gap of 100 bp
*      124483      138011: contig of 13529 bp in length
*      138012      138111: gap of 100 bp
*      138112      154313: contig of 16202 bp in length
*      154314      154413: gap of 100 bp
*      154414      187877: contig of 33464 bp in length.

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FEATURES

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  /mol_type="genomic DNA"
  /db_xref="taxon:9606"
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/misc_feature      19026..22429
/misc_feature      /note="assembly_fragment"
/misc_feature      22530..27710
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/misc_feature      27811..33955
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/misc_feature      64165..70384
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/misc_feature      70485..77931
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/misc_feature      78032..85239
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/misc_feature      102375..113880
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/misc_feature      vector_side:right"
/misc_feature      124483..138011
/misc_feature      /note="assembly_fragment"

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Query Match      41.2%; Score 21; DB 2; Length 187877;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      20 GGAAGCTCTGCTGCCATGG 40
DB      144518 GGAAGCTCTGCTGCCATGG 144538

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Search completed: December 16, 2003, 20:05:36
 UDD time : 1226 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:37:07 ; Search time 1319 Seconds
(without alignments)
939.749 Million cell updates/sec

Title: US-09-856-937A-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcgacgagcgttggg.....ctgcacgtgtgtccctct 51

Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 22781392 seqs, 12152238056 residues

Word size: 20

Total number of hits satisfying chosen parameters: 13

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database:

EST:
1: em_estba:*
2: em_esthum:*
3: em_estmu:*
4: em_estnu:*
5: em_estrov:*
6: em_escpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rnd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	32	62.7	372	9	AA031826
2	32	62.7	735	14	CA426262
3	32	62.7	760	12	BI161017
4	32	62.7	932	12	BG829828

5	32	62.7	974	10	BG745202
6	32	62.7	1051	10	BF568409
7	32	62.7	1053	12	BQ052282
8	32	62.7	1102	12	BM917316
9	32	62.7	1183	10	BF569011
10	32	62.7	2291	11	BC011844
11	32	62.7	2291	11	BC011844
12	25	49.0	337	9	AW801622
13	25	43.1	845	12	BI160187
14	21	41.2	703	14	CA308252

ALIGNMENTS

RESULT 1
AA031826
LOCUS
DEFINITION
372 bp mRNA linear EST 09-MAY-1997
ZK14B11.1 Soares pregnant_uterus NBHPU Homo sapiens CDNA clone
IMAGE:470493 5' similar to gb:M3315 TUMOR NECROSIS FACTOR RECEPTOR
2 PRECURSOR (HUMAN): contains element PTR5 repetitive element ;
mRNA sequence.
AA031826
AA031826 GI:1501789

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS
1 (bases 1 to 372)
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiappelli, B.,
Chisoe, S., Dietrich, N., Dubuque, T., Favello, A., Gish, W., Hawkins,
'M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Mardis, E., Moore
'B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,
Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E.,
Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.,
Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)
97044478
8889549

TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LINT; contact the
IMAGE Consortium (info@image.lln.gov) for further information.
Insert Length: 849 Std Error: 0.00
Seq primer: -28M13 rev2 from Amersham
High quality sequence stop: 362.

FEATURES

SOURCE

1. 372
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:3756495"
/db_xref="taxon:9606"
/clone="IMAGE:470493"
/sex="female"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="Soares pregnant_uterus NBHPU"
/note="Organ: uterus; Vector: p773-Pac; Site 1: Not I;
Site 2: Eco RI; 1st strand cDNA was primed with a Not I -
oligo(dT) primer [5',
AACTGAGAGAAATCGCGCGCCCTTTTCTTTTCTTTT 3']
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified p773 vector. Library
went through one round of normalization. Library
constructed by M. Fatima Bonaldo."

BASE COUNT
ORIGIN
51 a 122 c 102 g 97 t

REFERENCE 1 (bases 1 to 932)
 AUTHORS NIH-MGC <http://mgc.mci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Plate: LHCMI791 row: e column: 05
 High quality sequence stop: 833.
 Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4899436"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_42"
 /note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library." |"
 BASE COUNT 162 a 296 c 296 g 177 t 1 others
 ORIGIN
 Query Match 62.7%; Score 32; DB 12; Length 932;
 Best Local Similarity 100.0%; Pred. No. 3e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 20 GGAAGCCTCTGCTGCATGCTGTCTCTCT 51
 Db 691 GGAAGCCTCTGCTGCATGCTGTCTCTCT 722
 RESULT 5
 LOCUS BG745202 974 bp mRNA linear EST 15-MAY-2001
 DEFINITION 602723532P1 NIH_MGC_113 Homo sapiens cDNA clone IMAGE:4850143 5', mRNA sequence.
 ACCESSION BG745202
 VERSION BG745202.1 GI:14055655
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 974)
 NIH-MGC <http://mgc.mci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: Dr. Mark Watson
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Plate: LHCMI690 row: o column: 08
 High quality sequence stop: 420.
 Location/Qualifiers

source
 1..974
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4850143"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_113"
 /note="Organ: spleen; Vector: pOTB7; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library." |"
 BASE COUNT 301 a 245 c 285 g 143 t
 ORIGIN
 Query Match 62.7%; Score 32; DB 10; Length 974;
 Best Local Similarity 100.0%; Pred. No. 3.1e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 20 GGAAGCCTCTGCTGCATGCTGTCTCTCT 51
 Db 33 GGAAGCCTCTGCTGCATGCTGTCTCTCT 64
 RESULT 6
 LOCUS BF568409 1051 bp mRNA linear EST 12-DEC-2000
 DEFINITION 602184408P1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300633 5', mRNA sequence.
 ACCESSION BF568409
 VERSION BF568409.1 GI:11641789
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 1051)
 NIH-MGC <http://mgc.mci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Plate: LHCMI159 row: o column: 02
 High quality sequence stop: 769.
 Location/Qualifiers
 1..1051
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4300633"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_42"
 /note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library." |"
 BASE COUNT 229 a 313 c 346 g 161 t 2 others

ORIGIN

Query Match 62.7%; Score 32; DB 10; Length 1051;
Best Local Similarity 100.0%; Pred. No. 3.1e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
|||||
690 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 721

RESULT 7

BQ052282 1053 bp mRNA linear EST 29-MAR-2002
LOCUS BQ052282.1
DEFINITION AGENCOURT 6668457 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5933511
5', mRNA sequence.

ACCESSION BQ052282
VERSION BQ052282.1 GI:19811622
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1053)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM2118 row: c column: 16
High quality sequence stop: 649.

FEATURES

source

1..1053

Location/Qualifiers

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5933511"

/issue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH_MGC_106"

/note="Organ: Blood; Vector: pOTB7; Site: 1: XhoI; Site: 2:
EcoRI; CDNA made by oligo-dt priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH MGC Library."

BASE COUNT 216 a 328 c 297 g 212 t

ORIGIN

Query Match 62.7%; Score 32; DB 12; Length 1053;
Best Local Similarity 100.0%; Pred. No. 3.1e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
|||||
726 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 695

RESULT 8

BM917316 1102 bp mRNA linear EST 12-MAR-2002
LOCUS BM917316
DEFINITION AGENCOURT 6606593 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5483819
5', mRNA sequence.

ACCESSION BM917316

VERSION BM917316.1 GI:19367695
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1102)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM2012 row: b column: 12
High quality sequence stop: 507.

FEATURES

source

1..1102

Location/Qualifiers

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5483819"

/issue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH_MGC_106"

/note="Organ: blood; Vector: pOTB7; Site: 1: XhoI; Site: 2:
EcoRI; CDNA made by oligo-dt priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH MGC Library."

BASE COUNT 219 a 366 c 292 g 222 t 3 others

ORIGIN

Query Match 62.7%; Score 32; DB 12; Length 1102;
Best Local Similarity 100.0%; Pred. No. 3.2e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
|||||
191 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 222

RESULT 9
BF569011 1183 bp mRNA linear EST 12-DEC-2000
LOCUS BF569011
DEFINITION 60218435371 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300500 3',
mRNA sequence.

ACCESSION BF569011
VERSION BF569011
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1183)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be

, 716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

BASE COUNT

90 a 108 c 95 g 44 t

Query Match 49.0%; Score 25; DB 9; Length 337;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 27 CTCTGCTGCCATGCTGTCCTCT 51
| | | | |
Db 337 CTCTGCTGCCATGCTGTCCTCT 313

RESULT 12

B1160187 845 bp mRNA linear EST 05-JUL-2001
LOCUS 602864057f1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:5018007 5',
DEFINITION mRNA sequence.

ACCESSION B1160187
VERSION B1160187
KEYWORDS B1160187.1 GI:14620188
SOURCE EST.
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 845)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:
http://image.llnl.gov
Plate: L1CM1831 row: a column: 16
High quality sequence stop: 845.

FEATURES

1.845
Location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5018007"
/issue_type="epithelioid carcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_42"
/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACTGAG(G). Size-selected for average insert size 1 kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC library."

BASE COUNT

147 a 258 c 261 g 179 t

Query Match 43.1%; Score 22; DB 12; Length 845;
Best Local Similarity 100.0%; Pred. No. 0.51;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 30 TGCTGCCATGCTGTCCTCT 51
| | | | |
Db 748 TGCTGCCATGCTGTCCTCT 769

RESULT 13
CA308252 703 bp mRNA linear EST 01-NOV-2002
LOCUS CA308252/c
DEFINITION UI-H-FT1-bhy-e-02-0-UI s1 NCI CGAP_FTI Homo sapiens cDNA clone
UI-H-FT1-bhy-e-02-0-UI 3', mRNA sequence.

ACCESSION CA308252
VERSION CA308252
KEYWORDS CA308252.1 GI:24471306
SOURCE EST.
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 703)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

COMMENT Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. Gary W. Hunninghake, U of I
CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu

The following repetitive elements were found in this cDNA sequence: 11-300, >ALU (matched complement) 538-572, >(CAA) nSimple_repeat
Seq primer: M13 FORWARD
POLYA=yes.

FEATURES

source

1.703
Location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-FT1-bhy-e-02-0-UI"
/issue_type="Alveolar Macrophage"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NCI CGAP_FTI"
/note="Organ: Lung; Vector: pRTT3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoRI; Site 2: Not I; NCI CGAP_FTI is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldi, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoRI adaptor, digested with Not I, and cloned directionally into pRTT3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCACTGCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.

TAG_LIB=UI-H-FT1
TAG_TISSUE=Human Lung Alveolar Macrophage
TAG_SEQ=GGCACTGCG

BASE COUNT

155 a 220 c 183 g 145 t

Query Match 41.2%; Score 21; DB 14; Length 703;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 31 GCTGCCATGCTGTCCTCT 51
| | | | |
Db 703 GCTGCCATGCTGTCCTCT 683

Search completed: December 16, 2003, 20:27:41
Job time : 1320 secs

found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: L1CM1155 row: 1 column: 13
 High quality sequence stop: 716.
 Location/Qualifiers

FEATURES

source

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4300500"
/tissue_type="epithelioid carcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_1ib="NIH_MGC_43"
/Note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-ct priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGCG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

```

BASE COUNT

308 a 357 c 348 g 170 t

ORIGIN

Query Match 62.7%; Score 32; DB 10; Length 1183;
 Best Local Similarity 100.0%; Pred. No. 3.2e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 20 GGAAGCCTCTGTCGATGTCGTCCTCT 51

Db 649 GGAAGCCTCTGTCGATGTCGTCCTCT 618

RESULT 10

BC011844

LOCUS

BC011844 2291 bp mRNA linear HTC 04-MAR-2003

DEFINITION

Superfamily, similar to tumor necrosis factor receptor

ACCESSION

BC011844

VERSION

BC011844.1 GI:15080140

KEYWORDS

HTC.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

1 (bases 1 to 2291)
 Strausberg R.
 Direct Submission
 Submitted (30-JUL-2001) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA

REMARK

NIH-MGC Project URL: <http://mgc.nci.nih.gov>
 Contact: MGC help desk
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: National Institutes of Health Intramural
 Sequencing Center (NISC),
 Gaithersburg, Maryland;
 Web site: <http://www.nisc.nih.gov/>
 Contact: nisc_mgc@nigri.nih.gov

AUTHORS

Akhter, N., Ayala, K., Beckstrom-Sternberg, S.M., Benjamin, B.,

JOURNAL

Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S.,

TITLE

Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Haghighi, P.,

COMMENT

Hansen, N., Ho, S.-L., Karling, E., Kwong, P., Latic, P., Legaspi, R.,

REMARK

Machuro, Q.L., Masello, C., Maskeri, B., Mastrian, S.D., McCloskey, J.C.,

JOURNAL

McDowell, J., Pearson, R., Stancijop, S., Thomas, P.J., Touchman, J.W.,

TITLE

Tsurgen, C., Vogt, J.L., Walker, M.A., Wehrby, K.D., Wiggins, L.,

COMMENT

Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAL Plate: 28 Row: 1 Column: 15
 This clone has the following problem: retained intron.
 Location/Qualifiers

FEATURES

source

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/tissue_type="muscle, rhabdomyosarcoma"
/clone_1ib="NIH_MGC_17"
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/Note="Vector: pOTB7"

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BASE COUNT

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ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 3.9e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 20 GGAAGCCTCTGTCGATGTCGTCCTCT 51

Db 1578 GGAAGCCTCTGTCGATGTCGTCCTCT 1609

RESULT 11

AW801622/c

LOCUS

AW801622 337 bp mRNA linear EST 16-MAY-2000

DEFINITION

IL5-UM0068-080400-056-b02 UM0068 Homo sapiens cDNA, mRNA sequence.

ACCESSION

AW801622

VERSION

AW801622.1 GI:7853492

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS

1 (bases 1 to 337)

TITLE

Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,

COMMENT

Goldman, G.H., Carvalho, A.F., Matsumura, A., Bata, G.S., Simpson, D.H.,

JOURNAL

Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare

MEDLINE

, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and

PUBMED

Simpson, A.J.

COMMENT

Shotgun sequencing of the human transcriptome with ORF expressed

TITLE

Sequence tags

JOURNAL

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

MEDLINE

20202663

PUBMED

10737800

COMMENT

Contact: Simpson A.J.G.

TITLE

Laboratory of Cancer Genetics

JOURNAL

Ludwig Institute for Cancer Research

MEDLINE

Rue Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,

PUBMED

Brazil

COMMENT

Tel: +55-11-2704922

Fax: +55-11-2707001
 Email: asimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LICR Human Genome
 Project. This entry can be seen in the following URL
 (<http://www.ludwig.org.br/scripts/gethtml2.pl?file=IL5-UM0068-080>)
 Seq primer: puc 18 forward
 High quality sequence stop: 336.
 Location/Qualifiers

1..337
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/seq_start="Adult"
/clone_1ib="UM0068"
/Note="Organ: uterus; Vector: puc18; Site_1: SmaI; Site_2:
SmaI; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No. 196

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:04:22 ; Search time 145 Seconds
(without alignments)
949.458 Million cell updates/sec

Title: US-09-856-937a-1_COPY_580_630

Sequence: 1 agcagagcagcagcttgg99.....ctgcacatgctgtccctct 51

Scoring table: OLIGO NUC
Gapop_60.0 , Gapext 60.0

Search: 2552756 seqs, 1349719017 residues

Word size : 20

Total number of hits satisfying chosen parameters: 19

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: listing first 100 summaries

Database :

N_Geneseq_19Jun03:*
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2: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
3: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
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6: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*
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12: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT:*
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23: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*
25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	ID	Description
1	51	100.0	2224	AA089544	p75 Tumour Necrosis
2	51	100.0	2613	AA049207	Human tumour necro
3	51	100.0	2613	AB235564	Human gene express
4	51	100.0	3683	AB234910	Human gene express
5	51	100.0	3683	AB074753	Human tumour necro
6	51	100.0	3683	ABK81997	Human cancer differe
7	51	100.0	3683	AB165877	Lung cancer relate
8	51	100.0	3683	ABK33465	Human TNF receptor

9	51	100.0	3683	24	ABK33466	Human TNF receptor
10	51	100.0	3683	24	ABK33467	Human TNF receptor
11	40	78.4	201	19	AA12093	Human TNF inhibitor po
12	32	62.7	2393	12	AA010907	40kd TNF inhibitor
13	32	62.7	2394	22	AA083951	Human 40 Kda TNF 1
14	25	49.0	51	22	AA129880	Human SNP oligonuc
15	22	43.1	23	24	ABK33462	Human TNF-receptor
16	21	41.2	2339	12	AA010956	Encodes human 75kd
17	21	41.2	2339	20	AA029171	Human tumour necro
18	21	41.2	2339	22	AA048860	Human TNF-receptor
19	21	41.2	15602	24	AB074767	Human TNF2 partia

ALIGNMENTS

RESULT 1
ID AA089544 standard; DNA; 2224 BP.
AC AA089544;
XX
XX
XX 25-MAR-2003 (updated)
DT 31-OCT-1995 (first entry)
XX
XX
DE p75 Tumour Necrosis Factor Receptor.
KW Ligand; tumour necrosis factor; nerve growth factor; TNF; NGF;
KW receptor; ss..
XX Homo sapiens.
XX
OS
FH Key Location/Qualifiers
FT CDS 90..1475
FT /tag= a
FT /product= p75 TNF receptor.
FT misc_difference 1137..1139
FT /tag= b
FT /transl_except= GCA encodes Glycine.
FT misc_difference 1140..1142
FT /tag= c
FT /transl_except= CCA encodes Alanine.
FT misc_difference 1146..1148
FT /tag= d
FT /transl_except= GTG encodes Glutamic acid.
FT misc_difference 1149..1151
FT /tag= e
FT /transl_except= GAG encodes Alanine.
FT misc_difference 1152..1154
FT /tag= f
FT /transl_except= GCC encodes Arginine.
FT misc_difference 1155..1157
FT /tag= g
FT /transl_except= AGT encodes Alanine.
FT misc_difference 1158..1160
FT /tag= h
FT /transl_except= GGG encodes Serine.
FT misc_difference 1161..1163
FT /tag= i
FT /transl_except= GCC encodes Threonine.
FT misc_difference 1167..1169
FT /tag= j
FT /transl_except= GAG encodes Serine.
FT misc_difference 1170..1172
FT /tag= k
FT /transl_except= GCC encodes Serine.
FT misc_difference 1173..1175
FT /tag= l
FT /transl_except= CCG encodes Aspartic acid.
FT misc_difference 1176..1178
FT /tag= m
FT /transl_except= GCC encodes Serine.
FT misc_difference 1182..1184

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FT      /*tag= n
FT      /transl_except= ACC encodes Proline.
FT      misc_difference 1188..1190
FT      /*tag= o
FT      /transl_except= AGC encodes Glycine.
FT      misc_difference 1191..1193
FT      /*tag= p
FT      /transl_except= TCA encodes Histidine.
FT      misc_difference 1194..1196
FT      /*tag= q
FT      /transl_except= GAT encodes Glycine.
FT      misc_difference 1197..1199
FT      /*tag= r
FT      /transl_except= TCT encodes Threonine.
FT      misc_difference 2000..2002
FT      /*tag= s
FT      /transl_except= TCC encodes Glutamine.
FT      misc_difference 2003..2005
FT      /*tag= t
FT      /transl_except= CCT encodes Alanine.
FT      misc_difference 2006..2008
FT      /*tag= u
FT      /transl_except= GGT encodes Proline.
FT      misc_difference 2012..2014
FT      /*tag= v
FT      /transl_except= CAT encodes Valine.
FT      misc_difference 2015..2016
FT      /*tag= w
FT      /transl_except= GCG encodes Glutamic acid.
FT      misc_difference 2017..2018
FT      /*tag= x
FT      /transl_except= ACC encodes Alanine.
FT      misc_difference 2019..2021
FT      /*tag= y
FT      /transl_except= CAG encodes Serine.
FT      EP648783-A1.
FT      PN
FT      19-APR-1995.
FT      PD
FT      11-OCT-1994; 94EP-0116015.
FT      PF
FT      12-OCT-1993; 93IL-0107267.
FT      PR
FT      (YEDA ) YEDA RES & DEV CO LTD.
FT      PA
FT      (WALL/) WALLACH D.
FT      PI
FT      Beletsky I, Bigda J, Wett I, Wallach D;
FT      DR
FT      WPI; 1995-148673/20.
FT      DR
FT      P-PSDB; AAR72504.
FT      PT
FT      Tumour necrosis factor (TNF) receptor ligand - used to increase
FT      inhibitory effect of a soluble TNF receptor
FT      XX
FT      PS
FT      Disclosure; Figure 2; 18pp; English.
FT      XX
FT      CC
FT      A ligand to a member of the tumour necrosis factor (TNF)/nerve
FT      growth factor (NGF) receptor family which binds either to the region
FT      of the 4th-Cys rich domain of the receptor, or to the region between
FT      it and the cell membrane may be used in the production of a
FT      pharmaceutical composition for increasing the inhibitory effect of a
FT      soluble receptor of the TNF/NGF receptor family. This sequence
FT      encodes the p75 TNF receptor. N in the sequence represents an
FT      unidentified nucleotide (poor reproduction in specification).
FT      CC
FT      (Updated on 25-MAR-2003 to correct PN field.)
FT      XX
FT      SQ
FT      Sequence 2224 BP; 432 A; 697 C; 688 G; 400 T; 7 other;
FT      Query Match 100.0%; Score 51; DB 16; Length 2224;
FT      Best Local Similarity 100.0%; Pred. No. 1.7e-17;
FT      Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Oy      1 AGCAGAGCAGCAGATTGGGAAAACCTCTGCTGCATGTGTCCTCT 51
Db      1650 AGCAGAGCAGCAGATTGGGAAAACCTCTGCTGCATGTGTCCTCT 1700

RESULT 2
AAA49207
ID      AAA49207 standard; DNA; 2613 BP.
XX
XX      AAA49207;
AC
XX
XX      22-NOV-2000 (f'st entry)
DT
XX
XX      Human tumour ne.crosis factor alpha receptor 2 gene exon 10.
DE
XX
XX      Human; tumour necrosis factor alpha receptor 2; TNFR2; polymorphism;
KW      osteoporosis; ds.
XX
XX      Homo sapiens.
OS
XX
XX      Key
FH      1..2613
FT      CDS
FT      /*tag= a
FT      /product= "TNFR2"
FT      /partial
FT      allele
FT      replace (593,A), (598,G), (620,T)
FT      /*tag= b
FT      /label= allele_1
FT      allele
FT      replace (593,A), (598,T), (620,T)
FT      /*tag= c
FT      /label= allele_2
FT      allele
FT      replace (593,G), (598,T), (620,C)
FT      /*tag= d
FT      /label= allele_3
FT      allele
FT      replace (593,G), (598,T), (620,T)
FT      /*tag= e
FT      /label= allele_4
FT      allele
FT      replace (593,A), (598,T), (620,C)
FT      /*tag= f
FT      /label= allele_5
FT      WO200032826-A1.
FT      PN
FT      08-JUN-2000.
FT      PD
FT      30-NOV-1999; 99WO-US28403.
FT      PF
FT      30-NOV-1998; 98US-0110268.
FT      PR
FT      (UYDR-) UNIV DREXEL.
FT      PA
FT      Spotila LD;
FT      PI
FT      WPI; 2000-412362/35.
FT      DR
FT      XX
FT      PT
FT      Identifying individuals at risk of developing osteoporosis comprises
FT      assessing the genotype of a tumor necrosis factor-alpha 2 receptor gene
FT      in a DNA sample from an individual -
FT      XX
FT      PS
FT      Claim 2; Page 17-18; 21pp; English.
FT      XX
FT      CC
FT      The present sequence comprises exon 10 of the human tumour necrosis
FT      factor alpha receptor 2 (TNFR2) gene. The sequence contains three
FT      polymorphic sites. By determining the genotype of an individual it is
FT      possible to identify those at risk of osteoporosis, which is
FT      characterised by low bone density and fragile bones, later in life. Those
FT      at greatest risk are those who possess allele 1, which is the rarest
FT      allele. This is particularly useful as many cases of osteoporosis go
FT      undetected at present.
FT      CC
FT      SQ
FT      Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;
FT      Query Match 100.0%; Score 51; DB 21; Length 2613;

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Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Dy 1 AGCAGGCGACGGAGTTGGGAAAGCTTGTGCATGTTGTCCCTCT 51

Dd 580 AGCAGGCGACGGAGTTGGGAAAGCTTGTGCATGTTGTCCCTCT 630

RESULT 3
ABZ35564
ID ABZ35564 standard; cDNA; 2613 .BP.
XY

AC AB235564;
VV

DT 05-FEB-2003 (first entry)
YY

Human gene expression profile polynucleotide SEQ ID NO 675.

KM human, artery; endotheilium; umbilical, vein; aorta; pulmonary artery;
KM bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
KM tumour; microarray; genome mapping; antiBlastic; antiBlastic;
KM gene expression; gene, ss.

OS Homo sapiens.

PN WO200274979-A2.
YY

PD 26-SEP-2002.

20-MAR-2002; 2002WO-US08456.

PR 20-MAR-2001; 2001US-276947P.
XX

PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

PI Wan J, Wang Y;
XY

DR WPI; 2002-740862/80
xy

XX pathologies involving alterations of gene expression, e.g. cancer
PT
V1
V1
V1 New gene expression profile generated from primary, endothelial,
epithelial, and muscle cell types, useful for identifying disease
PS
PS Example 3; Page 798-799; 850pp; English.

Example 3; Page 798-799; 850pp; English.

The invention relates to a gene expression profile comprising one or more genes (AB234869-AB235692) and generated from a cell type. The cell type is a coronary artery endothelium, umbilical artery or vein endothelium, aortic endothelium, dermal microvascular endothelium, pulmonary artery endothelium, myometrium microvascular endothelium, keratinocyte epithelium, bronchial epithelium, mammary epithelium, prostate epithelium, renal cortical epithelium, renal proximal tubule epithelium, small airway epithelium, renal epithelium, umbilical artery smooth muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle, dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes, aortic smooth muscle, mesangial cells, coronary artery smooth muscle, bronchial smooth muscle, uterine smooth muscle, lung fibroblast, osteoblasts or prostate stromal cell. The gene expression profile is used for determining the level of RNA expression for a sample, determining the phenotype of a cell and distinguishing cell types. The gene or a protein expression profile is useful in identifying disease pathologies involving alterations of gene expression. The assessment of expression profiles may provide meaningful information with respect to tumour type and stage, treatment methods, and prognosis. The gene or protein expression profile may also be used for creating microarrays. The microarray is useful for genetic and physical mapping of genomes, DNA sequencing, genetic or medical diagnosis, genotyping of organisms, confirming cell or tissue identifications and in identifying promising antibiotics, antiviral or antifungal agents.

Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 2613;

Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Dy 1 AGCAGGGCAGCGATTGGGAAACCTCTGCATGTGTCCCTCT 51
 |||||
Db 580 AGCAGGCCAGCGATTGGGAAACCTCTGCATGTGTTCCTCT 630

RESULT 4
ABZ34910
ID ABZ34910 standard; cDNA; 3683 BP
XY

AC ABZ34910;

DT 05-FEB-2003 (first entry)
yy

Human gene expression profile polynucleotide SEQ ID NO 22.

KM gene expression; gene, ss.
KM tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
KM bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
KM human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
KM gene expression; gene, ss.

OS Homo sapiens.

PN WO200274979-A2.

PD 26-SEP-2002.

20-MAR-2002; 2002WO-US08456.

PR 20-MAR-2001; 2001US-276947P.

PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

PI Wan J, Wang Y;
XX

DR WPI; 2002-740862/80
yy

XX
PT pathologies involving alterations of gene expression, e.g. cancer
P7 epithelial, and muscle cell types, useful for identifying disease
P1 New gene expression profile generated from primary, endothelial,
P7 epithelial, and muscle cell types, useful for identifying disease
P1
P8 Claim 1; Page 235-236; 850pp; English.

Claim 1; Page 235-236; 850pp; English

The invention relates to a gene expression profile comprising one or more genes (AB234989-AB235692) and generated from a cell type. The cell type is a coronary artery endothelium, umbilical artery or vein endothelium, aortic endothelium, dermal microvascular endothelium, pulmonary artery endothelium, myometrium microvascular endothelium, pulmonary artery epithelium, renal cortical epithelium, mammary epithelium, prostatic epithelium, renal cortical epithelium, renal proximal tubule epithelium, small airway epithelium, renal epithelium, umbilical artery smooth muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle, dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes, aortic smooth muscle, mesangial cells, coronary artery smooth muscle, bronchial smooth muscle, uterine smooth muscle, lung fibroblast, osteoblasts or prostatic stromal cell. The gene expression profile is used for determining the level of RNA expression for a sample, determining the phenotype of a cell and distinguishing cell types. The gene or a protein expression profile is useful in identifying disease pathologies involving alterations of gene expression. The assessment of expression profiles may provide meaningful information with respect to tumour type and stage, treatment methods, and prognosis. The gene or protein expression profile may also be used for creating microarrays. The microarray is useful for genetic and physical mapping of genomes, DNA sequencing, genetic or medical diagnosis, genotyping of organisms, confirming cell or tissue identifications and in identifying promising antibiotics, antiviral or antifungal agents.

Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;

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Query Match	100.0%	Score 51	DB 24	Length 3683
Best Local Similarity	100.0%	Pred. No. 1.7e-17		
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
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1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCTCT 1700				
Result 5				
ID ABO74753				
ABO74753 standard; cDNA; 3683 BP.				
ABO74753;				
24-OCT-2002 (first entry)				
Human tumour necrosis factor receptor 2 encoding cDNA SEQ ID NO:3.				
Tumour necrosis factor receptor 2; TNFR2; antiense oligonucleotide;				
gene; ss.				
Homo sapiens.				
Key Location/Qualifiers				
CDS 90..1475				
FT /tag= a				
FT /product= "tumour necrosis factor receptor 2"				
PN US6410324-B1.				
PD 25-JUN-2002.				
PF 27-APR-2001; 2001US-0844634.				
PR 27-APR-2001; 2001US-0844634.				
PA (ISIS-) ISIS PHARM INC.				
PI Bennett CF, Watt AT;				
DR MPI; 2002-606814/65.				
DR P-PSDB; ABP52451.				
PT New compounds antisense to nucleic acid encoding human or mouse tumour				
PT necrosis factor receptor 2 are useful to treat disease associated with				
PT mouse tumor necrosis factor receptor 2 expression -				
PS Claim 1; Column 53-58; 69pp; English.				
CC The present invention describes compounds of 8-30 nucleobases antisense				
CC to a nucleic acid encoding human or mouse tumour necrosis factor				
CC receptor 2 (TNFR2). Also described is a method for inhibiting expression				
CC of human or mouse TNFR2 comprising contacting cells or tissues in vitro				
CC with one of the claimed compounds. The antisense compounds are used to				
CC treat a disease or condition associated with expression of TNFR2. The				
CC present sequence encodes human TNFR2, which is used in an example from				
CC the present invention.				
XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;				
Query Match 100.0%; Score 51; DB 24; Length 3683;				
Best Local Similarity 100.0%; Pred. No. 1.7e-17;				
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCTCT 51				
1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCTCT 1700				
Result 6				
ID ABR83997				
ABR83997 standard; cDNA; 3683 BP.				

ABK63997;
14-AUG-2002 (first entry)
Human CDNA differentially expressed in granulocytic cells #568.
Human; ss; granulocytic cell; DNA chip; bacterial infection;
viral infection; parasitic infection; protozoal infection;
fungal infection; sterile inflammatory disease; psoriasis;
rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
cardiac reperfusion injury; renal reperfusion injury; ARDS;
adult respiratory distress syndrome; inflammatory bowel disease;
Crohn's disease; ulcerative colitis; periodontal disease;
granulocyte activation; chronic inflammation; allergy.
Homo sapiens.
MO200228999-A2.
11-APR-2002.
03-OCT-2001; 2001WO-US30821.
03-OCT-2000; 2000US-237189P.
(GENE-) GENE LOGIC INC.
Beazer-Barclay Y, Weisman SM, Yamga S, Vockley J;
WPI: 2002-435328/46.
Detecting granulocyte activation by detecting differential expression
of genes associated with granulocyte activation, which serves as
diagnostic markers that is useful for monitoring disease states and
drug toxicity -
Claim 1; SEQ ID No 568; 114pp; English.
The invention relates to detecting (M1) granulocyte (GC) activation
(GCA), by detecting the level of expression of gene(s) (Gs) identified by
DNA chip analysis as given in the specification, and comparing
the expression level to an expression level in an unactivated
GC, where differential expression of Gs is indicative of GCA.
Also included are modulating (M2) Gs by contacting GC with an agent
that alters the expression of at least one gene in Gs; (2) screening (M3)
for an agent capable of modulating GCA or an inflammation (especially
chronic) in a tissue, an allergic response in a subject, exposure of a
subject to a pathogen or sterile inflammatory disease using the
gene expression profile; (3) detecting (M4) an inflammation (especially
chronic) in a tissue, an allergic response in a subject, exposure of a
subject to a pathogen or sterile inflammatory disease, by detecting the
level of expression in a sample of the tissue of gene(s) from Gs, where
(4) treating (M5) an inflammation (especially chronic) or in a tissue,
an allergic response in a subject, exposure of a subject to a pathogen
or sterile inflammatory disease, by contacting a tissue having
inflammation with an agent that modulates the expression of gene(s)
from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
modulating Gs; M3 is useful for screening an agent capable of modulating
GCA preferably in an inflammation in a tissue; M4 is useful for
detecting an inflammation (especially chronic) in a tissue, an allergic
inflammatory disease, exposure of a subject to a pathogen or sterile
inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
reperfusion injury, ARDS, adult respiratory distress syndrome,
inflammatory bowel disease, Crohn's disease, ulcerative colitis,
periodontal disease; also bacterial infection, viral infection,
parasitic infection, protozoal infection, fungal infection and M5 is
useful for treating one of the above conditions. The present
sequence represents a gene differentially expressed in granulocytes.
Note: The sequence data for this patent did not form part
of the printed specification, but was obtained in electronic
format directly from WIPO at

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CC      ftp.wipo.int/pub/published_pct_sequences.
XX
SQ      Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match      100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 51
Db      1650 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 1700

RESULT 7
ABL65877
ID      ABL65877 standard; DNA; 3683 BP.
XX
AC      ABL65877;
XX
DT      15-MAY-2002 (first entry)
XX
DE      Lung cancer related gene sequence SEQ ID NO:4214.
XX
KW      Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW      stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW      cytostatic; gene therapy; anti-neoplastic; Wilm's tumour; adenocarcinoma;
KW      gene; ds.
XX
OS      Homo sapiens.
XX
PN      M0200194629-A2.
XX
PD      13-DEC-2001.
XX
PF      30-MAY-2001; 2001WO-US10838.
XX
PR      05-JUN-2000; 2000US-209473P.
PR      05-JUN-2000; 2000US-209531P.
PR      18-SEP-2000; 2000US-233133P.
PR      18-SEP-2000; 2000US-233617P.
PR      20-SEP-2000; 2000US-234009P.
PR      20-SEP-2000; 2000US-234034P.
PR      20-SEP-2000; 2000US-234052P.
PR      22-SEP-2000; 2000US-234509P.
PR      22-SEP-2000; 2000US-234567P.
PR      25-SEP-2000; 2000US-234923P.
PR      25-SEP-2000; 2000US-234924P.
PR      25-SEP-2000; 2000US-235077P.
PR      25-SEP-2000; 2000US-235082P.
PR      25-SEP-2000; 2000US-235134P.
PR      25-SEP-2000; 2000US-235280P.
PR      26-SEP-2000; 2000US-235637P.
PR      26-SEP-2000; 2000US-235638P.
PR      27-SEP-2000; 2000US-235711P.
PR      27-SEP-2000; 2000US-235720P.
PR      27-SEP-2000; 2000US-235840P.
PR      27-SEP-2000; 2000US-235863P.
PR      28-SEP-2000; 2000US-236028P.
PR      28-SEP-2000; 2000US-236032P.
PR      28-SEP-2000; 2000US-236033P.
PR      28-SEP-2000; 2000US-236034P.
PR      28-SEP-2000; 2000US-236109P.
PR      28-SEP-2000; 2000US-236111P.
PR      29-SEP-2000; 2000US-236842P.
PR      29-SEP-2000; 2000US-236891P.
PR      02-OCT-2000; 2000US-237172P.
PR      02-OCT-2000; 2000US-237173P.
PR      02-OCT-2000; 2000US-237278P.
PR      02-OCT-2000; 2000US-237294P.
PR      02-OCT-2000; 2000US-237295P.
PR      02-OCT-2000; 2000US-237316P.
PR      03-OCT-2000; 2000US-237425P.
PR      03-OCT-2000; 2000US-237598P.
PR      03-OCT-2000; 2000US-237598P.
XX

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PR      03-OCT-2000; 2000US-237604P.
PR      03-OCT-2000; 2000US-237606P.
PR      03-OCT-2000; 2000US-237608P.
PR      01-NOV-2000; 2000US-244867P.
PR      01-NOV-2000; 2000US-245084P.
XX
XX      (AVAL-) AVALON PHARM.
XX
PI      Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI      Soppet DR, Weaver Z;
XX
XX      WPI; 2002-188264/24.
XX
PT      Screening for anti-neoplastic agent involves exposing cells to a
PT      chemical agent to be tested for anti-neoplastic activity, and
PT      determining a change in expression of a gene of a signature gene set
XX
XX      Claim 1; SEQ ID 4214, 44pp; English.
XX
XX      The present invention describes a method (M1) for screening for an
XX      anti-neoplastic agent. The method involves exposing cells to a chemical
XX      agent to be tested for anti-neoplastic activity, determining a change in
XX      expression of at least one gene (I) of a signature gene set, where (I)
XX      comprises a sequence (S) selected from 8447 sequences (given in ABL61664
XX      to ABL70110), or is at least 95% identical to (S), where a change in
XX      expression is indicative of anti-neoplastic activity. (I) has cytostatic
XX      activity and can be used in gene therapy. M1 can be used for screening
XX      an anti-neoplastic agent, and can be used for producing a product which
XX      is the data collected with respect to the anti-neoplastic agent as a
XX      result of M1, and the data is sufficient to convey the chemical
XX      structure and/or properties of the agent. M1 can be used in the
XX      treatment of cancer such as colon, breast, stomach, lung, thyroid,
XX      oesophageal, ovarian, kidney, prostate or pancreatic cancer,
XX      adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
XX      infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
XX      carcinoma, papillary carcinoma and Wilm's tumour.
XX
SQ      Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match      100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 51
Db      1650 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 1700

RESULT 8
ABK33465
ID      ABK33465 standard; DNA; 3683 BP.
XX
AC      ABK33465;
XX
DT      23-APR-2002 (first entry)
XX
DE      Human TNF receptor II gene.
XX
KW      Human; anti-tumour necrosis factor receptor II; TNF receptor II;
KW      chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
KW      inflammatory disorder; chronic disease; receptor; gene; ds.
XX
OS      Homo sapiens.
XX
FH      Key
FH      CDS
FT      Location/Qualifiers
FT      sig_peptide
FT      mat_peptide
FT      tag= a
FT      tag= b
FT      tag= c

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PN EPI172444-A1.
XX
XX 16-JAN-2002.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX (CONA-) CONARIS RES INST GMBH.
XX
XX Schreiber S, Hampe J, Mascheretti S;
XX WPI; 2002-156651/21.
XX P-PSDB; AAU75172.
XX
XX Detecting non-responders to anti-human necrosis factor therapy,
XX comprises testing an individual for homozygosity for a single
XX nucleotide polymorphism in the gene coding for the tumour necrosis
XX factor receptor II -
XX
XX Disclosure; Page 23-27; 45pp; English.
XX
XX The present invention relates to a method for detecting non-responders
XX to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX an individual for homozygosity for at least one single nucleotide
XX polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX A/G) and one in exon 6 (position 587 T/G) which result in Lys56Lys and
XX Met196Arg respectively, are also described. The method of the invention
XX is useful for detecting non-responders to anti-TNF therapy such as
XX infliximab therapy, or therapy of Crohn's disease. The genes containing
XX the 2 novel polymorphisms are useful for diagnostic purposes in
XX inflammatory, malignant or other chronic diseases. The present sequence
XX encodes for human TNF receptor II.
XX
XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
XX
SQ
Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGATGTGCCCTCT 51
DB 1650 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGATGTGCCCTCT 1700

RESULT 9
ABK33466
ID ABK33466 standard; DNA; 3683 BP.
XX
XX ABK33466;
AC
XX
XX 23-APR-2002 (first entry)
DT
XX
XX Human TNF receptor II gene with SNP in exon 2.
DE
XX
XX Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
XX chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
XX inflammatory disorder; chronic disease; receptor; gene;
XX single nucleotide polymorphism; db.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
XX CDS 90..1475
XX FT /*tag= a
XX FT /product= "TNF receptor II variant #1"
XX FT sig_peptide 90..155
XX FT /*tag= b
XX FT mat_peptide 156..1472
XX FT /*tag= c
XX FT variation replace (257, A)
XX FT /*tag= d
```

```
FT
XX /standard_name= "Single nucleotide polymorphism"
XX
XX EPI172444-A1.
XX
XX 16-JAN-2002.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX (CONA-) CONARIS RES INST GMBH.
XX
XX Schreiber S, Hampe J, Mascheretti S;
XX WPI; 2002-156651/21.
XX P-PSDB; AAU75173.
XX
XX Detecting non-responders to anti-human necrosis factor therapy,
XX comprises testing an individual for homozygosity for a single
XX nucleotide polymorphism in the gene coding for the tumour necrosis
XX factor receptor II -
XX
XX Claim 15; Page 29-33; 45pp; English.
XX
XX The present invention relates to a method for detecting non-responders
XX to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX an individual for homozygosity for at least one single nucleotide
XX polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX A/G) and one in exon 6 (position 587 T/G) which result in Lys56Lys and
XX Met196Arg respectively, are also described. The method of the invention
XX is useful for detecting non-responders to anti-TNF therapy such as
XX infliximab therapy, or therapy of Crohn's disease. The genes containing
XX the 2 novel polymorphisms are useful for diagnostic purposes in
XX inflammatory, malignant or other chronic diseases. The present sequence
XX represents the human TNF receptor II gene containing the SNP in exon 2.
XX
XX Sequence 3683 BP; 780 A; 1098 C; 1087 G; 718 T; 0 other;
XX
SQ
Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGATGTGCCCTCT 51
DB 1650 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGATGTGCCCTCT 1700

RESULT 10
ABK33467
ID ABK33467 standard; DNA; 3683 BP.
XX
XX ABK33467;
AC
XX
XX 23-APR-2002 (first entry)
DT
XX
XX Human TNF receptor II gene with SNP in exon 6.
DE
XX
XX Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
XX chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
XX inflammatory disorder; chronic disease; receptor; gene;
XX single nucleotide polymorphism; db.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
XX CDS 90..1475
XX FT /*tag= a
XX FT /product= "TNF receptor II variant #2"
XX FT sig_peptide 90..155
XX FT /*tag= b
XX FT mat_peptide 156..1472
XX FT /*tag= c
```

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XX (SYND) SYNERGEN INC.
 XX WP1; 1991-073847/11.
 DR P-PSDB; AAR11001.
 XX Tumour necrosis factor inhibitor - for suppression of TNF-alpha
 PT and -beta, useful as therapeutic agent.
 XX
 PS Disclosure; Fig 39; 142pp; English.
 XX
 CC The sequence encodes the entire 40 kD TNF inhibitor. The clone from
 CC which the sequence was obtd. was isolated from a cDNA library
 CC prep'd. from RNA form U937 cells treated with PMA/PHA. The whole
 CC gene can be inserted into expression vectors for prep'n. of TNF
 CC inhibitor for use in the treatment of inflammatory and degenerative
 CC diseases.
 CC See also AAQ10878, AAQ10884 and AAQ10883.
 CC (Updated on 25-MAR-2003 to correct PA field.)
 XX
 SQ Sequence 2393 BP; 484 A; 743 C; 738 G; 428 T; 0 other;
 Query Match 62.7%; Score 32; DB 12; Length 2393;
 Best Local Similarity 100.0%; Pred. No. 1.9e-07;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 20 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 51
 Db 1671 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 1702
 RESULT 13
 AAC83951
 ID AAC83951 standard; DNA; 2394 BP.
 XX
 AC AAC83951;
 XX
 DT 02-MAR-2001 (first entry)
 XX
 DE Human 40 kDa TNF inhibitor precursor coding sequence.
 XX
 KW TNF inhibitor; antiinflammatory; Tumour Necrosis Factor; interleukin;
 KW IL-1; inflammatory disease; degenerative disease; human; lymphotoxin; ss.
 XX
 OS Homo sapiens.
 XX
 EN US6143866-A.
 XX
 PD 07-NOV-2000.
 XX
 PF 19-JAN-1995; 95US-0375242.
 XX
 PR 19-JUL-1990; 90US-0555274.
 PR 09-JUL-1993; 93US-0090366.
 PR 18-JUL-1989; 89US-0381080.
 PR 11-DEC-1989; 89US-0450329.
 PR 07-FEB-1990; 90US-0479661.
 XX
 PA (AMGE-) AMGEN INC.
 XX
 PI Squires C, King MW, Hale KK, Brewer MT, Thompson RC;
 PI Vanderalice RW, Vannice J, Kohno T;
 XX
 DR WP1; 2001-006443/01.
 DR P-PSDB; AAB37686.
 XX
 PT Novel 30 kDa tumor necrosis factor inhibitor analog comprising a
 PT non-native cysteine residue cross-linked with polyethylene glycol,
 PT useful for treating inflammatory and degenerative diseases mediated by
 TNF -
 XX
 PS Example 12; Fig 39; 82pp; English.
 XX

CC The present invention relates to Tumour Necrosis Factor (TNF) inhibitors
 CC (see AAB37676 and AAB37685), which have TNF inhibitory activity. The
 CC novel TNF inhibitors of the present invention are useful as therapeutic
 CC agents for inhibiting the activity of TNF and interleukin (IL-1), and
 CC for treating inflammatory and degenerative diseases mediated by TNF. The
 CC present sequence is the coding sequence for the precursor of 40 kDa TNF
 CC inhibitor. The 40 kDa TNF inhibitor can inhibit both TNF alpha and beta
 CC (lymphotoxin).
 XX
 SQ Sequence 2394 BP; 484 A; 743 C; 738 G; 428 T; 1 other;
 Query Match 62.7%; Score 32; DB 22; Length 2394;
 Best Local Similarity 100.0%; Pred. No. 1.9e-07;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 20 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 51
 Db 1672 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 1703
 RESULT 14
 AAL29880
 ID AAL29880 standard; DNA; 51 BP.
 XX
 AC AAL29880;
 XX
 DT 24-JAN-2002 (first entry)
 XX
 DE Human SNP oligonucleotide #3088.
 XX
 KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
 KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
 KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
 KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
 KW complement related protein; cytochrome; kinesin; cytokine; interferon;
 KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
 KW multifactorial disease; autoimmune disease; infection;
 KW nervous system disease; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200147944-A2.
 XX
 PD 05-JUL-2001.
 XX
 PF 28-DEC-2000; 2000WO-US35498.
 XX
 PR 28-DEC-1999; 99US-0173419.
 PR 27-DEC-2000; 2000US-0173419.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shinkels RA, Leach M;
 XX
 DR WP1; 2001-465210/50.
 XX
 PT Polymorphic nucleic acids encoding e.g. amyases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.
 PT cancer, autoimmune diseases and infections -
 XX
 PS Claim 1; Page 2271; 413pp; English.
 XX
 CC The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amyases, amyloid proteins, angiotensin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
 CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune

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CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

XX Sequence 51 BP; 11 A; 11 C; 20 G; 9 T; 0 other;

Qy Query Match 49.0%; Score 25; DB 22; Length 51;
Best Local Similarity 100.0%; Pred. No. 0.00098;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 20 GGAAGCCTCTGCTGCCATGGTGTG 44
27 GGAAGCCTCTGCTGCCATGGTGTG 51

RESULT 15
ABK33462
ID ABK33462 standard; DNA; 23 BP.

XX ABK33462;

XX 23-APR-2002 (first entry)

XX Human TNF-receptor II 3'UNT nt 1690 (T/C) TET probe (T allele).

XX Human; anti-tumour necrosis factor receptor II; TNF receptor II;
XX TNF receptor I; infliximab therapy; Crohn's disease; malignant disorder;
XX inflammatory disorder; chronic disease; receptor; probe; 88.

XX Homo sapiens.

XX EP1172444-A1.

XX 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX (CONA-) CONARIS RES INST GMBH.

XX Schreiber S, Hampe J, Mascheretti S;

XX WPI; 2002-156651/21.

XX Detecting non-responders to anti-human necrosis factor therapy,

XX comprises testing an individual for homozygosity for a single

XX nucleotide polymorphism in the gene coding for the tumour necrosis

XX factor receptor II -

XX Disclosure; Page 8; 45pp; English.

XX The present invention relates to a method for detecting non-responders

XX to anti-tumour necrosis factor (TNF) therapy. The method involves testing

XX an individual for homozygosity for at least one single nucleotide

XX polymorphism (SNP) in the gene coding for TNF receptor II, which is

XX located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168

XX A/G) and one in exon 6 (position 587 T/G) which result in Lys56Lys and

XX Met196Arg respectively, are also described. The method of the invention

XX is useful for detecting non-responders to anti-TNF therapy such as

XX infliximab therapy, or therapy of Crohn's disease. The genes containing

XX CC inflammatory, malignant or other chronic diseases. The present sequence

XX represents a Tagman probe used in the methods of the present invention.

Qy 26 CCTCTGCTGCCATGGTGTGCC 47
DB 1 CCTCTGCTGCCATGGTGTGCC 22

RESULT 16
AAQ10956

ID AAQ10956 standard; DNA; 2339 BP.

XX AAQ10956;

XX 09-JAN-2003 (updated)

XX 24-MAY-1991 (first entry)

XX Encodes human 75KD TNF-binding protein.

XX Tumour Necrosis Factor; binding proteins; septic shock;

XX autoimmune glomerulonephritis; lymphokine; cytokine.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 1..1179

XX /*tag= a

XX /product= 75KD TNF-BP

XX EP117563-A.

XX 31-AUG-1990; 90EP-0116707.

XX 20-APR-1990; 90CH-0001347.

XX 12-SEP-1989; 89CH-0003319.

XX 08-MAR-1990; 90CH-0000746.

XX (HOF) HOFFMANN-LA ROCHE AG.

XX Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Lotscher H;

XX Schlaeager EJ;

XX WPI; 1991-081851/12.

XX P-PSDB; AAR11605.

XX Insoluble tumour necrosis factor binding proteins - and DNA

XX encoding them, useful in pharmaceutical prods. and for antibody

XX prodn.

XX Claim 4; Fig 1; 26pp; German.

XX Partial amino acid sequences were determined for the 55 and 75KD

XX TNF-BPs (see AAR1072-R11081) and oligonucleotide primers were

XX synthesised based on these partial sequences. The primers were used

XX to produce a cDNA fragment for use as a probe to screen a human

XX placental cDNA bank constructed in lambda gtl1. Positive clones were

XX identified and sequenced. Repeated sequencing showed a discrepancy

XX at position 7 such that the third codon encodes either Thr or Ser.

XX DNA constructs comprising the TNF-BP coding sequence may also

XX contain a fragment encoding a human Ig domain. Recombinant

XX constructs are used to transform cells to confer improved TNF-

XX binding properties.

XX See also AAQ10955.

XX (Updated on 09-JAN-2003 to add missing OS field.)

XX Sequence 2339 BP; 494 A; 720 C; 685 G; 439 T; 1 other;

Qy Query Match 41.2%; Score 21; DB 12; Length 2339;

Best Local Similarity 100.0%; Pred. No. 0.12;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 20 GGAAGCCTCTGCTGCCATGG 40

1372 GGAAGCCTCTGCTGCCATGG 1392

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RESULT 17
AAZ09171
ID AAZ09171 standard; cDNA; 2339 BP.
XX
AC AAZ09171;
XX
DT 20-MAR-2003 (updated)
DT 18-OCT-1999 (first entry)
XX
DE Human tumour necrosis factor binding protein cDNA fragment.
XX
KM Tumour necrosis factor binding protein; TNF; insoluble protein; agonist;
KM anti-inflammatory; antimalarial; treatment; septic shock; inflammation;
KM autoimmune glomerulonephritis; cerebral malaria; immune response;
KM antagonist; diagnosis; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1179
FT /tag= a
FT /product= "TNF binding protein"
FT /note= "Partial sequence, no start codon given"
XX
PN EP939121-A2.
XX
PD 01-SEP-1999.
XX
PF 31-AUG-1990; 99EP-0100703.
XX
PR 12-SEP-1989; 89CH-0003319.
PR 08-MAR-1990; 90CH-0000746.
PR 20-APR-1990; 90CH-0001347.
PR 31-AUG-1990; 90EP-0116707.
XX
PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
PI Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Loetscher H;
PI Schlaeeger E;
XX
DR WPI; 1999-480840/41.
DR P-PSDB; AAY30935.
XX
PT New insoluble proteins, and fragments, that bind to tumor necrosis
PT factor, used to treat e.g. septic shock or cerebral malaria
XX
PS Claim 4a; Fig 4; 25pp; German.
XX
CC This invention describes novel homogeneous insoluble proteins (I),
CC their (in)soluble fragments (Ia) and their salts that can bind tumour
CC necrosis factor (TNF). The products of the invention have
CC anti-inflammatory and antimalarial activity. (I) and (Ia) are used (i)
CC to treat diseases in which TNF is involved (e.g. septic shock, autoimmune
CC glomerulonephritis, cerebral malaria, immune responses and inflammation),
CC (ii) to purify TNF, (iii) to identify TNF (ant)agonists and (iv) for
CC diagnostic determination of TNF in body fluids. Antibodies raised against
CC (I) are used for affinity purification of (I). This sequence encodes
CC a tumour necrosis factor binding protein fragment described in the method
CC of the invention.
CC (Updated on 20-MAR-2003 to correct PF field.)
CC (Updated on 20-MAR-2003 to correct PR field.)
XX
SQ Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
XX
Query Match 41.2%; Score 21; DB 20; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 20 GGAAGCCTCTGCTGCATGG 40
DB 1372 GGAAGCCTCTGCTGCATGG 1392

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```

RESULT 18
AAH48860
ID AAH48860 standard; DNA; 2339 BP.
XX
AC AAH48860;
XX
DT 12-NOV-2001 (first entry)
DT 18-OCT-1999 (first entry)
XX
DE Human TNFBP-associated DNA #2.
XX
KM TNF; tumor necrosis factor binding protein; TNFBP; treatment;
KM insoluble protein; anti-inflammatory; immunosuppressive; antibacterial;
KM antiprotozoal; treatment; meningococcal sepsis; cerebral malaria;
KM autoimmune glomerulonephritis; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1179
FT /tag= a
FT /product= "TNFBP-associated protein"
XX
PN EP132471-A2.
XX
PD 12-SEP-2001.
XX
PF 31-AUG-1990; 2001EP-0108117.
XX
PR 12-SEP-1989; 89CH-0003319.
PR 08-MAR-1990; 90CH-0000746.
PR 20-APR-1990; 90CH-0001347.
PR 31-AUG-1990; 90EP-0116707.
PR 31-AUG-1990; 99EP-0100703.
XX
PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
PI Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Loetscher H;
PI Schlaeeger E;
XX
DR WPI; 2001-559312/63.
DR P-PSDB; AAB86818.
XX
PT New homogeneous, insoluble proteins that bind tumor necrosis factor
PT (TNF), useful for treating TNF-mediated disorders, e.g. inflammation
XX
PS Claim 4a; Fig 4; 26pp; German.
XX
CC This invention describes novel insoluble proteins (I), also their
CC (in)soluble fragments and pharmaceutically acceptable salts, able to bind
CC tumor necrosis factor (TNF) and in homogeneous form. The products of the
CC invention have anti-inflammatory, immunosuppressive, antibacterial,
CC antiprotozoal activity. (I), and related recombinant proteins, are used
CC to treat diseases mediated by TNF, e.g. shock in cases of meningococcal
CC sepsis; development of autoimmune glomerulonephritis and cerebral
CC malaria. Also (I), or antibodies specific for them, are used for
CC diagnostic determination of TNF in body fluids, for affinity purification
CC of TNF and for identifying (ant)agonists of TNF. This sequence encodes a
CC human TNF binding protein described in the method of the invention.
XX
SQ Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
XX
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Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 20 GGAAGCCTCTGCTGCATGG 40
DB 1372 GGAAGCCTCTGCTGCATGG 1392

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RESULT 19

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AB074767
ID AB074767 standard; DNA; 15602 BP.
XX
AC AB074767;
XX
DT 24-OCT-2002 (first entry)
XX
DE Human TNFR2 partial genomic sequence SEQ ID NO.17.
XX
KW Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;
KM gene; ds.
XX
OS Homo sapiens.
XX
PN US6410324-B1.
XX
PD 25-JUN-2002.
XX
PF 27-APR-2001; 2001US-0844634.
XX
PR 27-APR-2001; 2001US-0844634.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett CF, Watt AT;
XX
DR WI; 2002-606814/65.
XX
PT New compounds antisense to nucleic acid encoding human or mouse tumor
PT necrosis factor receptor 2 are useful to treat disease associated with
PT mouse tumor necrosis factor receptor 2 expression -
PS
PS Claim 1; Column 67-80; 69pp; English.
XX
XX The present invention describes compounds of 8-30 nucleobases antisense
CC to a nucleic acid encoding human or mouse tumour necrosis factor
CC receptor 2 (TNFR2). Also described is a method for inhibiting expression
CC of human or mouse TNFR2 comprising contacting cells or tissues in vitro
CC with one of the claimed compounds. The antisense compounds are used to
CC treat a disease or condition associated with expression of TNFR2. The
CC present sequence represents a partial genomic sequence of human TNFR2,
CC which is used in an example from the present invention.
XX
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Query Match 41.2%; Score 21; DB 24; Length 15602;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Gy 20 GGAAAGCCTTCGTGCCCATGG 40
DB 11202 GGAAAGCCTTCGTGCCCATGG 11222

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 20:05:42 ; Search time 149 Seconds

(without alignments)
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Gapop 60.0 , Gapext 60.0

Searched: 2201672 seqs, 1661799599 residues

Word size : 20

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Database :

Published Applications NA:*

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- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	51	100.0	2224	10	US-09-800-908-2
3	51	100.0	2613	13	US-10-101-510-675
4	51	100.0	3683	11	US-09-954-456-1187
5	51	100.0	3683	11	US-09-902-176A-49
6	51	100.0	3683	11	US-09-902-176A-51
7	51	100.0	3683	11	US-09-902-176A-53
8	51	100.0	3683	13	US-10-101-510-22
9	22	43.1	23	11	US-09-902-176A-46
10	21	41.2	3492	15	US-10-207-655-191

ALIGNMENTS

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RESULT 1
US-09-800-909-1
; Sequence 1, Application US/09800909
; Patent No. US2001001983A1
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-09-800-909-1

Query Match 100.0%; Score 51; DB 9; Length 2224;
Best Local Similarity 100.0%; Pred. No. 6.8e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGGCGCAGCGATTGGGGAAGCCTCTGCTGCATGCTGTCTCCTCT 51
DB 1650 AGCAGAGCGACGAGTGGGGGAAAGCCTCTGCTGCATGCTGTCTCCTCT 1700

RESULT 2
US-09-800-908-2
; Sequence 2, Application US/09800908
; Patent No. US20020111462A1
; GENERAL INFORMATION:
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; APPLICANT: WALLACH, David
; BIGDA, Jacek
; BELETISKY, Igor
; METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,908
; FILING DATE: 08-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,347
; FILING DATE: <Unknown>
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-800-908-2
;
Query Match 100.0%; Score 51; DB 10; Length 2224;
Best Local Similarity 100.0%; Pred. No. 6.8e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCGACGAGTTGGGGAAAGCCTCTGCTGCCATGCTGTCCCTCT 51
Db 1650 AGCAGAGCGACGAGTTGGGGAAAGCCTCTGCTGCCATGCTGTCCCTCT 1700

RESULT 3
US-10-101-510-675
; Sequence 675, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101,510
; PRIOR FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 675
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; LENGTH: 2613
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-101-510-675
; Query Match 100.0%; Score 51; DB 13; Length 2613;
; Best Local Similarity 100.0%; Pred. No. 6.7e-18;
; Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCGACGAGTTGGGGAAAGCCTCTGCTGCCATGCTGTCCCTCT 51
Db 580 AGCAGAGCGACGAGTTGGGGAAAGCCTCTGCTGCCATGCTGTCCCTCT 630

RESULT 4
US-09-954-456-1187
; Sequence 1187, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using C
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1187
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-954-456-1187
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Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCGACGAGTTGGGGAAAGCCTCTGCTGCCATGCTGTCCCTCT 51
Db 1650 AGCAGAGCGACGAGTTGGGGAAAGCCTCTGCTGCCATGCTGTCCCTCT 1700

RESULT 5
US-09-902-176A-49
; Sequence 49, Application US/09902176A
; Publication No. US2003009943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Haepfe, Jochen
; APPLICANT: Maecherelli, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; TITLE OF INVENTION: No. US2003009943A1-Responders to Anti-TNF-Therapy
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; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902.176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (156)
US-09-902-176A-49
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Query Match          100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1650 AGCAGAGGCGAGCGAGTTGGGAAAGCCTGCTGCTGCATGATGTGTCCCTCT 1700
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RESULT 6
US-09-902-176A-51
; Sequence 51, Application US/09902176A
; Publication No. US2003009943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902.176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (156)
US-09-902-176A-51
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Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1650 AGCAGAGGCGAGCGAGTTGGGAAAGCCTGCTGCTGCATGATGTGTCCCTCT 1700
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RESULT 7
US-09-902-176A-53
; Sequence 53, Application US/09902176A
; Publication No. US2003009943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
```

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; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; TITLE OF INVENTION: No. US2003009943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902.176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 53
; LENGTH: 3683
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (156)
US-09-902-176A-53
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Best Local Similarity 100.0%; Pred. No. 6.3e-18;
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RESULT 8
US-10-101-510-22
; Sequence 22, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: MAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101,510
; CURRENT FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 22
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-22
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Best Local Similarity 100.0%; Pred. No. 6.3e-18;
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; Sequence 46, Application US/09902176A
; Publication No. US2003009943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
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; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 46
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: TET Probe#
US-09-902-176A-46

Query Match 43.1%; Score 22; DB 11; Length 23;
Best Local Similarity 100.0%; Pred.No. 0.043;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CCTCTGCTGCCATGGTGTGTC 22

RESULT 10
US-10-207-655-191
; Sequence 191, Application US/10207655
; Publication No. US20030118592A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401C1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-25
; NUMBER OF SEQ ID NOS: 426
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 191
; LENGTH: 3492
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-207-655-191

Query Match 41.2%; Score 21; DB 15; Length 3492;
Best Local Similarity 100.0%; Pred.No. 0.063;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 20 GGAAGCCTCTGCTGCCATGG 40
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Db 1472 GGAAGCCTCTGCTGCCATGG 1492

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:40:17 ; Search time 45 seconds

(without alignments)
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Searched: 569978 seqs, 220691566 residues

Word size : 20

Total number of hits satisfying chosen parameters: 5

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database :

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4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	2224	3	US-08-477-347-2
2	51	100.0	2224	3	US-08-476-862-1
3	51	100.0	2224	4	US-09-800-909-1
4	51	100.0	3683	4	US-09-844-634-3
5	21	41.2	15602	4	US-09-844-634-17

ALIGNMENTS

RESULT 1
US-08-477-347-2
; Sequence 2, Application US/08477347
; Patent No. 6232446
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA

ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,347
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/115,685
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 106271
FILING DATE: 08-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, G. Kevin
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: WALLACH-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90..1472
US-08-477-347-2

Query Match 100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTTGGGAAAGCCTCTGCTGCCATGCTGCTCCCTCT 51
DB 1650 AGCAGAGCGACGAGTTGGGAAAGCCTCTGCTGCCATGCTGCTCCCTCT 1700

RESULT 2
US-08-476-862-1
; Sequence 1, Application US/08476862
; Patent No. 6262239
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,862
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 107267
; FILING DATE: 12-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-08-476-862-1

Query Match      100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCGAGTGGGGAAGCCCTCTGCTGCATGCTGTGTCCTCT 51
DB      1650 AGCAGAGCAGCGAGTGGGGAAGCCCTCTGCTGCATGCTGTGTCCTCT 1700

RESULT 3
US-09-800-909-1
; Sequence 1, Application US/09800909
; Patent No. 6555111
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
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; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-09-800-909-1

Query Match      100.0%; Score 51; DB 4; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCGAGTGGGGAAGCCCTCTGCTGCATGCTGTGTCCTCT 51
DB      1650 AGCAGAGCAGCGAGTGGGGAAGCCCTCTGCTGCATGCTGTGTCCTCT 1700

RESULT 4
US-09-844-634-3
; Sequence 3, Application US/09844634
; Patent No. 6410324
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRES
; FILE REFERENCE: RTS-0216
; CURRENT APPLICATION NUMBER: US/09/844,634
; CURRENT FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 174
; SEQ ID NO 3
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)...(1475)
; US-09-844-634-3

Query Match      100.0%; Score 51; DB 4; Length 3683;
Best Local Similarity 100.0%; Pred. No. 2.5e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCGAGTGGGGAAGCCCTCTGCTGCATGCTGTGTCCTCT 51
DB      1650 AGCAGAGCAGCGAGTGGGGAAGCCCTCTGCTGCATGCTGTGTCCTCT 1700

RESULT 5
US-09-844-634-17
; Sequence 17, Application US/09844634
; Patent No. 6410324
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRES
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FILE REFERENCE: RTS-0216
CURRENT APPLICATION NUMBER: US/09/844,634
CURRENT FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 17
LENGTH: 15602
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
US-09-844-634-17

Query Match 41.2%; Score 21; DB 4; Length 15602;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
|||||
Db 11202 GGAAGCCTCTGCTGCCATGG 11222

Search completed: December 16, 2003, 20:28:33
Job time : 45 secs

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FT	misc_difference 1188..1190
FT	/tag= o
FT	/transl_except= AGC encodes Glycine.
FT	misc_difference 1191..1193
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FT	/transl_except= TCA encodes Histidine.
FT	misc_difference 1194..1196
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FT	/transl_except= GAT encodes Glycine.
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XX	EPE48783-A1.
XX	PN PD
XX	19-APR-1995.
XX	11-OCT-1994; 94EP-0116015.
XX	PR 12-OCT-1993; 93IL-0107267.
XX	(VEDA) VEDA RES & DEV CO LTD.
PA	(WALL/) WALLACH D.
PI	Beletsky I, Bigda J, Wett I, Wallach D;
DR	WPI; 1995-148673/20.
DR	P-PSDB; AAR72504.
PT	Tumour necrosis factor (TNF) receptor ligand - used to increase
PT	inhibitory effect of a soluble TNF receptor
XX	Disclousure; Figure 2; 18pp; English.
XX	A ligand to a member of the tumour necrosis factor (TNF)/nerve
CC	growth factor (NGF) receptor family which binds either to the region
CC	of the 4th-Cys rich domain of the receptor, or to the region between
CC	it and the cell membrane may be used in the production of a
CC	pharmaceutical composition for increasing the inhibitory effect of a
CC	soluble receptor of the TNF/NGF receptor family. This sequence
CC	encodes the p75 TNF receptor. N in the sequence represents an
CC	undentified nucleotide (poor reproduction in specification).
CC	(Updated on 25-MAR-2003 to correct PN field.)
XX	
SQ	Sequence 2224 BP; 432 A; 697 C; 688 G; 400 T; 7 other;
Query Match	100.0%; Score 51; DB 16; Length 2224;
Best Local Similarity	100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0;	Mismatches 0; Indels 0; Gaps 0;

Query	Match	Score	DB	Length	2613
1	AGCAGAGCAGCAGACTTGGGGAACCCCTGCTGCACAGTGTGCCCTCT	51			
1650	AGCAGAGCAGCAGACTTGGGGAACCCCTGCTGCACAGTGTGCCCTCT	1700			
RESULT 2					
ID	AAA49207	standard; DNA; 2613 BP.			
XX	AAA49207;				
XX	22-NOV-2000	(first entry)			
XX	Human tumour necrosis factor alpha receptor 2 gene exon 10.				
XX	Human; tumour necrosis factor alpha receptor 2; TNFR2; polymorphism;				
XX	osteoporosis; ds.				
OS	Homo sapiens.				
XX	Key	Location/Qualifiers			
FT	CDS	1..2613			
FT		/*tag= a			
FT		/product= "TNFR2"			
FT		/partial			
FT	allele	replace (593,A), (598,G), (620,T)			
FT		/*tag= b			
FT	allele	replace (593,A), (598,T), (620,T)			
FT		/*tag= c			
FT	allele	replace (593,G), (598,T), (620,C)			
FT		/*tag= d			
FT	allele	replace (593,G), (598,T), (620,T)			
FT		/*tag= e			
FT	allele	replace (593,A), (598,T), (620,C)			
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FT	allele	replace (593,A), (598,T), (620,C)			
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FT		/*tag= j			
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FT		/*tag= k			
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FT		/*tag= p			
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FT		/*tag= q			
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FT		/*tag= v			
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Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCCTGCTGCATGATGTCCTCT 51
Db 580 AGCAGAGCAGCAGGAGTTGGGAAAGCCCTGCTGCATGATGTCCTCT 630

RESULT 3

ABZ35564
ID ABZ35564 standard; cDNA; 2613 BP.

AC ABZ35564;

DT 05-FEB-2003 (first entry)

DE Human gene expression profile polynucleotide SEQ ID NO 675.

Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
gene expression; gene; ss.

OS Homo sapiens.

PN WO200274979-A2.

PD 26-SEP-2002.

PF 20-MAR-2002; 2002WO-US08456.

PR 20-MAR-2001; 2001US-276947P.

PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

PI Wan J, Wang Y;

DR WPI; 2002-740862/80.

PT New gene expression profile generated from primary, endothelial,
epithelial, and muscle cell types, useful for identifying disease
pathologies involving alterations of gene expression, e.g. cancer

PS Example 3; Page 798-799; 850pp; English.

XX The invention relates to a gene expression profile comprising one or more
CC genes (ABZ34869-ABZ35692) and generated from a cell type. The cell type
CC is a coronary artery endothelium, umbilical artery or vein endothelium,
CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
CC endothelium, myometrium microvascular endothelium, keratinocyte
CC epithelium, bronchial epithelium, mammary epithelium, prostate
CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
CC small airway epithelium, renal epithelium, umbilical artery smooth
CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
CC osteoblasts or prostate stromal cell. The gene expression profile is used
CC for determining the level of RNA expression for a sample, determining the
CC phenotype of a cell and distinguishing cell types. The gene or a protein
CC expression profile is useful in identifying disease pathologies
CC involving alterations of gene expression. The assessment of expression
CC profiles may provide meaningful information with respect to tumour type
CC and stage, treatment methods, and prognosis. The gene or protein
CC expression profile may also be used for creating microarrays. The
CC microarray is useful for genetic and physical mapping of genomes, DNA
CC sequencing, genetic or medical diagnosis, genotyping of organisms,
CC confirming cell or tissue identifications and in identifying promising
CC antibiotics, antiviral or antifungal agents.

XX Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 2613;

Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCCTGCTGCATGATGTCCTCT 51
Db 580 AGCAGAGCAGCAGGAGTTGGGAAAGCCCTGCTGCATGATGTCCTCT 630

RESULT 4

ABZ34910
ID ABZ34910 standard; cDNA; 3683 BP.

AC ABZ34910;

DT 05-FEB-2003 (first entry)

DE Human gene expression profile polynucleotide SEQ ID NO 22.

Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
gene expression; gene; ss.

OS Homo sapiens.

PN WO200274979-A2.

PD 26-SEP-2002.

PF 20-MAR-2002; 2002WO-US08456.

PR 20-MAR-2001; 2001US-276947P.

PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

PI Wan J, Wang Y;

DR WPI; 2002-740862/80.

PT New gene expression profile generated from primary, endothelial,
epithelial, and muscle cell types, useful for identifying disease
pathologies involving alterations of gene expression, e.g. cancer

PS Claim 1; Page 235-236; 850pp; English.

XX The invention relates to a gene expression profile comprising one or more
CC genes (ABZ34869-ABZ35692) and generated from a cell type. The cell type
CC is a coronary artery endothelium, umbilical artery or vein endothelium,
CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
CC endothelium, myometrium microvascular endothelium, keratinocyte
CC epithelium, bronchial epithelium, mammary epithelium, prostate
CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
CC small airway epithelium, renal epithelium, umbilical artery smooth
CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
CC osteoblasts or prostate stromal cell. The gene expression profile is used
CC for determining the level of RNA expression for a sample, determining the
CC phenotype of a cell and distinguishing cell types. The gene or a protein
CC expression profile is useful in identifying disease pathologies
CC involving alterations of gene expression. The assessment of expression
CC profiles may provide meaningful information with respect to tumour type
CC and stage, treatment methods, and prognosis. The gene or protein
CC expression profile may also be used for creating microarrays. The
CC microarray is useful for genetic and physical mapping of genomes, DNA
CC sequencing, genetic or medical diagnosis, genotyping of organisms,
CC confirming cell or tissue identifications and in identifying promising
CC antibiotics, antiviral or antifungal agents.

XX Sequence 3683 BP; 761 A; 1098 C; 1066 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;

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Best Local Similarity 100.0%; Pred. No. 1,7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1650 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTGTGTCCTCT 1700

RESULT 5
ABQ74753
ID ABQ74753 standard; cDNA; 3683 BP.
AC
XX ABQ74753;
AC
XX
XX
DT 24-OCT-2002 (first entry)
XX
DE Human tumour necrosis factor receptor 2 encoding cDNA SEQ ID NO:3.
XX
KM Tumour necrosis factor receptor 2, TNFR2, antisense oligonucleotide;
XX gene; ss.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX FH 90..1475
XX CDS /*tag= a
XX FT /product= "tumour necrosis factor receptor 2"
XX
XX US6410324-B1.
XX
XX 25-JUN-2002.
XX PD
XX 27-APR-2001; 2001US-0844634.
XX PF
XX 27-APR-2001; 2001US-0844634.
XX PR
XX (ISIS-) ISIS PHARM INC.
XX PA
XX Bennett CF, Watt AT;
XX PI
XX MPI; 2002-606814/65.
XX DR
XX P-PSDB; ABP52451.
XX
XX New compounds antisense to nucleic acid encoding human or mouse tumor
XX necrosis factor receptor 2 are useful to treat disease associated with
XX mouse tumor necrosis factor receptor 2 expression -
XX
XX Claim 1; Column 53-58; 69pp; English.
XX
XX The present invention describes compounds of 8-30 nucleobases antisense
XX to a nucleic acid encoding human or mouse tumor necrosis factor
XX receptor 2 (TNFR2). Also described is a method for inhibiting expression
XX of human or mouse TNFR2 comprising contacting cells or tissues in vitro
XX with one of the claimed compounds. The antisense compounds are used to
XX treat a disease or condition associated with expression of TNFR2. The
XX present sequence encodes human TNFR2, which is used in an example from
XX the present invention.
XX
SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTGTGTCCTCT 51
    |||||
DB 1650 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCATGTGTGTCCTCT 1700

RESULT 6
ABK83997
ID ABK83997 standard; cDNA; 3683 BP.
XX

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ABK83997.
 14-AUG-2002 (first entry)
 Human cDNA differentially expressed in granulocytic cells #568.
 Human; ss; granulocytic cell; DNA chip; bacterial infection;
 viral infection; parasitic infection; protozoal infection;
 fungal infection; sterile inflammatory disease; psoriasis;
 rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
 cardiac reperfusion injury; renal reperfusion injury; ARDS;
 adult respiratory distress syndrome; inflammatory bowel disease;
 Crohn's disease; ulcerative colitis; periodontal disease;
 granulocyte activation; chronic inflammation; allergy.
 Homo sapiens.
 MO200228999-A2.
 11-APR-2002.
 03-OCT-2001; 2001WO-US30821.
 03-OCT-2000; 2000US-237189P.
 (GENE-) GENE LOGIC INC.
 Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;
 WPI; 2002-435328/46.
 Detecting granulocyte activation by detecting differential expression
 of genes associated with granulocyte activation, which serves as
 diagnostic markers that is useful for monitoring disease states and
 drug toxicity -
 Claim 1; SEQ ID NO 568; 114pp; English.
 The invention relates to detecting (M1) granulocyte (GC) activation
 (GCA), by detecting the level of expression of gene(s) (Gs) identified by
 DNA chip analysis as given in the specification, and comparing
 the expression level to an expression level in an unactivated
 GC, where differential expression of Gs is indicative of GCA.
 Also included are modulating (M2) Gs by contacting GC with an agent
 that alters the expression of at least one gene in Gs; (2) screening (M3)
 for an agent capable of modulating GCA or an inflammation (especially
 chronic) in a tissue, an allergic response in a subject, exposure of a
 subject to a pathogen or sterile inflammatory disease using the
 gene expression profile; (3) detecting (M4) an inflammation (especially
 chronic) in a tissue, an allergic response in a subject, exposure of a
 subject to a pathogen or sterile inflammatory disease, by detecting the
 level of expression in a sample of the tissue of gene(s) from Gs, where
 the level of expression of the gene is indicative of inflammation;
 (4) treating (M5) an inflammation (especially chronic) or in a tissue,
 an allergic response in a subject, exposure of a subject to a pathogen
 or sterile inflammatory disease, by contacting a tissue having
 inflammation with an agent that modulates the expression of gene(s)
 from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
 modulating Gs; M3 is useful for screening an agent capable of modulating
 GCA preferably in an inflammation in a tissue; M4 is useful for
 detecting an inflammation (especially chronic) in a tissue, an allergic
 response in a subject, exposure of a subject to a pathogen or sterile
 inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 reperfusion injury, ARDS, adult respiratory distress syndrome,
 inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 periodontal disease); also bacterial infection, viral infection,
 parasitic infection, protozoal infection, fungal infection and M5 is
 useful for treating one of the above conditions. The present
 sequence represents a gene differentially expressed in granulocytes.
 Note: The sequence data for this patent did not form part
 of the printed specification, but was obtained in electronic
 format directly from WIPO at

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CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 1700

RESULT 7
ABL65877
ID ABL65877 standard; DNA; 3683 BP.
XX
AC ABL65877;
XX
DT 15-MAY-2002 (first entry)
XX
DE Lung cancer related gene sequence SEQ ID NO:4214.
XX
KM Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KM stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KM cytostatic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma;
KM gene; ds.
XX
OS Homo sapiens.
XX
PN WO200194629-A2.
XX
PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001WO-US10838.
XX
PR 05-JUN-2000; 2000US-209473P.
PR 05-JUN-2000; 2000US-209511P.
PR 18-SEP-2000; 2000US-233133P.
PR 18-SEP-2000; 2000US-233617P.
PR 20-SEP-2000; 2000US-234009P.
PR 20-SEP-2000; 2000US-234034P.
PR 20-SEP-2000; 2000US-234052P.
PR 22-SEP-2000; 2000US-234509P.
PR 22-SEP-2000; 2000US-234567P.
PR 25-SEP-2000; 2000US-234923P.
PR 25-SEP-2000; 2000US-234924P.
PR 25-SEP-2000; 2000US-235077P.
PR 25-SEP-2000; 2000US-235082P.
PR 25-SEP-2000; 2000US-235134P.
PR 26-SEP-2000; 2000US-235280P.
PR 26-SEP-2000; 2000US-235637P.
PR 27-SEP-2000; 2000US-235638P.
PR 27-SEP-2000; 2000US-235711P.
PR 27-SEP-2000; 2000US-235720P.
PR 27-SEP-2000; 2000US-235840P.
PR 27-SEP-2000; 2000US-235863P.
PR 28-SEP-2000; 2000US-236028P.
PR 28-SEP-2000; 2000US-236032P.
PR 28-SEP-2000; 2000US-236033P.
PR 28-SEP-2000; 2000US-236034P.
PR 28-SEP-2000; 2000US-236109P.
PR 28-SEP-2000; 2000US-236111P.
PR 29-SEP-2000; 2000US-236842P.
PR 29-SEP-2000; 2000US-236842P.
PR 02-OCT-2000; 2000US-237112P.
PR 02-OCT-2000; 2000US-237113P.
PR 02-OCT-2000; 2000US-237278P.
PR 02-OCT-2000; 2000US-237294P.
PR 02-OCT-2000; 2000US-237295P.
PR 02-OCT-2000; 2000US-237316P.
PR 03-OCT-2000; 2000US-237425P.
PR 03-OCT-2000; 2000US-237598P.

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PR 03-OCT-2000; 2000US-237604P.
PR 03-OCT-2000; 2000US-237606P.
PR 03-OCT-2000; 2000US-237608P.
PR 01-NOV-2000; 2000US-244867P.
PR 01-NOV-2000; 2000US-245084P.
XX
PA (AVAL-) AVALON PHARM.
XX
PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI Soppet DR, Weaver Z;
XX
DR WPI; 2002-188264/24.
XX
PT Screening for anti-neoplastic agent involves exposing cells to a
PT chemical agent to be tested for anti-neoplastic activity, and
PT determining a change in expression of a gene of a signature gene set
XX
PS Claim 1; SEQ ID 4214; 44pp; English.
XX
CC The present invention describes a method (M1) for screening for an
CC anti-neoplastic agent. The method involves exposing cells to a chemical
CC agent to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening
CC an anti-neoplastic agent, and can be used for producing a product which
CC is the data collected with respect to the anti-neoplastic agent as a
CC result of M1, and the data is sufficient to convey the chemical
CC structure and/or properties of the agent. M1 can be used in the
CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
CC oesophageal, ovarian, kidney, prostate or pancreatic cancer.
CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
CC carcinoma, papillary carcinoma and Wilms' tumour.
XX
SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 1700

RESULT 8
ABK33465
ID ABK33465 standard; DNA; 3683 BP.
XX
AC ABK33465;
XX
DT 23-APR-2002 (first entry)
XX
DE Human TNF receptor II gene.
XX
KM Human; anti-tumour necrosis factor receptor II; TNF receptor II;
KM chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
KM inflammatory disorder; chronic disease; receptor; gene; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FH CDS 90..1475
FT /*tag= a
FT /product= "TNF receptor II"
FT sig_peptide 90..155
FT /*tag= b
FT mat_peptide 156..1472
FT /*tag= c
XX

```

```

PN EP1172444-A1.
XX
XX PD 16-JAN-2002.
XX
XX PF 10-JUL-2000; 2000EP-0114786.
XX
XX PR 10-JUL-2000; 2000EP-0114786.
XX
XX PA (CONA-) CONARIS RES INST GMBH.
XX
XX PI Schreiber S, Hampe J, Mascheretti S;
XX
XX DR WPI; 2002-156651/21.
XX
XX DR P-PSDB; AAU75172.
XX
XX PT Detecting non-responders to anti-human necrosis factor therapy,
XX
XX PT comprises testing an individual for homozygosity for a single
XX
XX PT nucleotide polymorphism in the gene coding for the tumour necrosis
XX
XX PT factor receptor II -
XX
XX PS Disclosure; Page 23-27; 45pp; English.
XX
XX CC The present invention relates to a method for detecting non-responders
XX
XX CC to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX
XX CC an individual for homozygosity for at least one single nucleotide
XX
XX CC polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX
XX CC located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX
XX CC A/G) and one in exon 6 (position 587 T/G) which result in lys561ys and
XX
XX CC Met196Arg respectively, are also described. The method of the invention
XX
XX CC is useful for detecting non-responders to anti-TNF therapy such as
XX
XX CC infliximab therapy, or therapy of Crohn's disease. The genes containing
XX
XX CC the 2 novel polymorphisms are useful for diagnostic purposes in
XX
XX CC inflammatory, malignant or other chronic diseases. The present sequence
XX
XX CC encodes for human TNF receptor II.
XX
SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 51
    |||||||
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 1700

RESULT 9
ABK33466 standard; DNA; 3683 BP.
XX
XX AC ABK33466;
XX
XX DT 23-APR-2002 (first entry)
XX
XX DE Human TNF receptor II gene with SNP in exon 2.
XX
XX KM Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
XX
XX KM chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
XX
XX KM inflammatory disorder; chronic disease; receptor; gene;
XX
XX KM single nucleotide polymorphism; ds.
XX
XX OS Homo sapiens.
XX
XX FH Key Location/Qualifiers
XX
XX FT CDS 90..1475
XX
XX FT /*tag= a
XX
XX FT /product= "TNF receptor II variant #1"
XX
XX FT sig_peptide /*tag= b
XX
XX FT mat_peptide 156..1472
XX
XX FT /*tag= c
XX
XX FT replace (257, A)
XX
XX FT /*tag= d
XX
XX FT variation
XX
XX FT

```

```

FT FT /standard_name= "Single nucleotide polymorphism"
XX
XX PN EP1172444-A1.
XX
XX PD 16-JAN-2002.
XX
XX PF 10-JUL-2000; 2000EP-0114786.
XX
XX PR 10-JUL-2000; 2000EP-0114786.
XX
XX PA (CONA-) CONARIS RES INST GMBH.
XX
XX PI Schreiber S, Hampe J, Mascheretti S;
XX
XX DR WPI; 2002-156651/21.
XX
XX DR P-PSDB; AAU75173.
XX
XX PT Detecting non-responders to anti-human necrosis factor therapy,
XX
XX PT comprises testing an individual for homozygosity for a single
XX
XX PT nucleotide polymorphism in the gene coding for the tumour necrosis
XX
XX PT factor receptor II -
XX
XX PS Claim 15; Page 23-33; 45pp; English.
XX
XX CC The present invention relates to a method for detecting non-responders
XX
XX CC to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX
XX CC an individual for homozygosity for at least one single nucleotide
XX
XX CC polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX
XX CC located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX
XX CC A/G) and one in exon 6 (position 587 T/G) which result in lys561ys and
XX
XX CC Met196Arg respectively, are also described. The method of the invention
XX
XX CC is useful for detecting non-responders to anti-TNF therapy such as
XX
XX CC infliximab therapy, or therapy of Crohn's disease. The genes containing
XX
XX CC the 2 novel polymorphisms are useful for diagnostic purposes in
XX
XX CC inflammatory, malignant or other chronic diseases. The present sequence
XX
XX CC represents the human TNF receptor II gene containing the SNP in exon 2.
XX
SQ Sequence 3683 BP; 780 A; 1098 C; 1087 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 51
    |||||||
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 1700

RESULT 10
ABK33467
XX
XX ID ABK33467 standard; DNA; 3683 BP.
XX
XX AC ABK33467;
XX
XX DT 23-APR-2002 (first entry)
XX
XX DE Human TNF receptor II gene with SNP in exon 6.
XX
XX KM Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
XX
XX KM chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
XX
XX KM inflammatory disorder; chronic disease; receptor; gene;
XX
XX KM single nucleotide polymorphism; ds.
XX
XX OS Homo sapiens.
XX
XX FH Key Location/Qualifiers
XX
XX FT CDS 90..1475
XX
XX FT /*tag= a
XX
XX FT /product= "TNF receptor II variant #2"
XX
XX FT sig_peptide /*tag= b
XX
XX FT mat_peptide 156..1472
XX
XX FT /*tag= c
XX
XX FT

```

```
FT variation replace (676, T)
FT /*tag= d
FT /standard_name= "single nucleotide polymorphism"
XX
XX EP1172444-A1.
XX
XX 16-JAN-2002.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX (CONA-) CONARIS RES INST GMEH.
XX
XX Schreiber S, Hampe J, Mascheretti S;
XX WPI; 2002-156651/21.
XX
XX P-PSDB; AAU75174.
XX
XX Detecting non-responders to anti-human necrosis factor therapy,
XX comprises testing an individual for homozygosity for a single
XX nucleotide polymorphism in the gene coding for the tumour necrosis
XX factor receptor II -
XX
XX Claim 16; Page 35-39; 45pp; English.
XX
XX The present invention relates to a method for detecting non-responders
XX to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX an individual for homozygosity for at least one single nucleotide
XX polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX A/G) and one in exon 6 (position 587 T/G) which result in lys56Iys and
XX Met196Arg respectively, are also described. The method of the invention
XX is useful for detecting non-responders to anti-TNF therapy such as
XX infliximab therapy, or therapy of Crohn's disease. The genes containing
XX the 2 novel polymorphisms are useful for diagnostic purposes in
XX inflammatory, malignant or other chronic diseases. The present sequence
XX represents the human TNF receptor II gene containing the SNP in exon 6.
XX
XX Sequence 3683 BP; 780 A; 1098 C; 1088 G; 717 T; 0 other;
SQ
Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGCTGTGCTCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGCTGTGCTCTCT 1700
RESULT 11
AAQ12093
ID AAQ12093 standard; DNA; 201 BP.
XX
XX AAQ12093;
XX
XX 30-MAR-1999 (first entry)
XX
XX Human biallelic polymorphic DNA fragment M32315B.
XX
XX Polymorphism; biallelic; human; forensic; paternity testing; disease;
XX detection; phenotypic typing; characteristic; infection; hereditary;
XX autoimmune disease; cancer; inflammation; drug; therapy; medicament;
XX treatment; marker; ss.
XX
XX Homo sapiens.
XX
XX WO9820165-A2.
XX
XX 14-MAY-1998.
XX
XX 05-NOV-1997; 97WO-US20313.
XX
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PR 06-NOV-1996; 96US-0030455.
XX
XX (WHEED ) WHITEHEAD INST BIOMEDICAL RES.
XX
XX Hudson T, Lander ES, Wang D;
XX
XX WPI; 1998-286974/25.
XX
XX New isolated nucleic acid segments from the human genome - used for
XX determining polymorphic forms for use in e.g. forensics, paternity
XX testing or phenotypic typing for disease
XX
XX Claim 1; Page 219; 310pp; English.
XX
XX AAQ10269-X12937 are human DNA fragments which contain biallelic
XX polymorphic markers which have been isolated using the primers
XX represented in AAQ09121-X10268. The base occupying the polymorphic site
XX is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments
XX can be used in methods for determining polymorphic forms in an individual
XX for use in e.g. forensics, paternity testing or for phenotypic typing for
XX diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan
XX syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,
XX familial hypercholesterolemia, polycystic kidney disease, hereditary
XX spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary
XX haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos
XX syndrome, osteogenesis imperfecta, acute intermittent porphyria,
XX autoimmune diseases, inflammation, cancer, diseases of the nervous
XX system, infection by pathogenic microorganisms, and characteristics such
XX as longevity, appearance (e.g. baldness, obesity), strength, speed,
XX endurance, fertility, and susceptibility or receptivity to particular
XX drugs or therapeutic treatments. The isolated polymorphic nucleic acid
XX segments can also be used to produce medicaments for the treatment or
XX prophylaxis of such diseases.
XX
XX Sequence 201 BP; 32 A; 65 C; 62 G; 41 T; 1 other;
SQ
Query Match 78.4%; Score 40; DB 19; Length 201;
Best Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGG 40
Db 90 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGG 129
RESULT 12
AAQ10907
ID AAQ10907 standard; cDNA; 2393 BP.
XX
XX AAQ10907;
XX
XX 25-MAR-2003 (updated)
XX
XX 13-MAY-1991 (first entry)
XX
XX 40KD TNF inhibitor precursor gene in c40DK#6.
XX
XX Tumour necrosis factor; inhibitor; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX FT 93..1478
XX FT /*tag= a
XX
XX AU9058976-A.
XX
XX 24-JAN-1991.
XX
XX 16-JUL-1990; 90AU-0058976.
XX
XX 07-FEB-1990; 90US-0479661.
XX
XX 18-JUL-1989; 89US-0381080.
XX
XX 11-DEC-1989; 89US-0450329.
XX
```

XX (SYND) SYNERGEN INC.
PA
XX
XX
DR WPI, 1991-073847/11.
DR P-PSDB; AAR11001.
XX
PT Tumour necrosis factor inhibitor - for suppression of TNF-alpha
PT and -beta, useful as therapeutic agent.
XX
XX
PS Disclosure; Fig 39; 142pp; English.
XX
XX The sequence encodes the entire 40 kD TNF inhibitor. The clone from
CC which the sequence was obt'd. was isolated from a cDNA library
CC prep'd. from RNA form U937 cells treated with PM/PHA. The whole
CC gene can be inserted into expression vectors for prep'n. of TNF
CC inhibitor for use in the treatment of inflammatory and degenerative
CC diseases.
CC See also AAQ10878, AAQ10884 and AAQ10883.
CC (Updated on 25-MAR-2003 to correct PA field.)
CC
XX
SQ Sequence 2393 BP; 484 A; 743 C; 738 G; 428 T; 0 other;

Query Match 62.7%; Score 32; DB 12; Length 2393;
Best Local Similarity 100.0%; Pred. No. 1.9e-07;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1671 GGAAAGCCTCTGCTGCATGATGTGTCCTCT 1702

RESULT 13
AAC83951
ID AAC83951 standard; DNA; 2394 BP.
XX
XX AAC83951;
AC
XX
XX 02-MAR-2001 (first entry)
DT
XX
XX Human 40 kDa TNF inhibitor precursor coding sequence.
DE
XX
XX TNF inhibitor; antiinflammatory; Tumour Necrosis Factor; interleukin;
KW IL-1; inflammatory disease; degenerative disease; human; lymphotoxin; ss.
XX
OS Homo sapiens.
XX
XX US6143866-A.
PN
XX
XX 07-NOV-2000.
PD
XX
XX 19-JAN-1995; 95US-0375242.
PF
XX
XX 19-JUL-1990; 90US-0555274.
PR
XX 09-JUL-1993; 93US-0090366.
PR
XX 18-JUL-1989; 89US-0381080.
PR
XX 11-DEC-1989; 89US-0450329.
PR
XX 07-FEB-1990; 90US-0479661.
XX
XX (AMGE-) AMGEN INC.
PA
XX
XX Squires C, King MW, Hale KK, Brewer MT, Thompson RC;
PI Vanderajice RW, Vannice J, Kohno T;
XX
XX WPI, 2001-006443/01.
DR
XX P-PSDB; AAB37686.
XX
XX Novel 30 kDa tumor necrosis factor inhibitor analog comprising a
PT non-native cysteine residue cross-linked with polyethylene glycol,
PT useful for treating inflammatory and degenerative diseases mediated by
TNF -
XX
XX Example 12; Fig 39; 82pp; English.
XX

CC The present invention relates to Tumour Necrosis Factor (TNF) inhibitors
CC (see AAB37676 and AAB37685), which have TNF inhibitory activity. The
CC novel TNF inhibitors of the present invention are useful as therapeutic
CC agents for inhibiting the activity of TNF and interleukin (IL-1), and
CC for treating inflammatory and degenerative diseases mediated by TNF. The
CC present sequence is the coding sequence for the precursor of 40 kDa TNF
CC inhibitor. The 40 kDa TNF inhibitor can inhibit both TNF alpha and beta
CC (lymphotoxin).
XX
XX
SQ Sequence 2394 BP; 484 A; 743 C; 738 G; 428 T; 1 other;

Query Match 62.7%; Score 32; DB 22; Length 2394;
Best Local Similarity 100.0%; Pred. No. 1.9e-07;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1672 GGAAAGCCTCTGCTGCATGATGTGTCCTCT 1703

RESULT 14
AAL29880
ID AAL29880 standard; DNA; 51 BP.
XX
XX AAL29880;
AC
XX
XX 24-JAN-2002 (first entry)
DT
XX
XX Human SNP oligonucleotide #3088.
DE
XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinase; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX
XX
OS Homo sapiens.
XX
XX WO200147944-A2.
PN
XX
XX 05-JUL-2001.
PD
XX
XX 28-DEC-2000; 2000MO-US35498.
PF
XX
XX 28-DEC-1999; 99US-0173419.
PR
XX 27-DEC-2000; 2000US-0173419.
PR
XX
XX (CURA-) CURAGEN CORP.
PA
XX
XX Shinkets RA, Leach M;
PI
XX
XX WPI; 2001-465210/50.
DR
XX
XX Polymorphic nucleic acids encoding e.g. amyloses, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.
PT cancer, autoimmune diseases and infections -
XX
XX
PS Claim 1; Page 2271; 4143pp; English.
XX
XX The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amyloses, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinases, cytokines, interferons, interleukins,
CC G-protein coupled receptors and thioesterases. The present sequence is
CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune

CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.

XX
 SQ Sequence 51 BP; 11 A; 11 C; 20 G; 9 T; 0 other;

Query Match 49.0%; Score 25; DB 22; Length 51;
 Best Local Similarity 100.0%; Pred.No. 0.00098;
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGTGTG 44
 DB 27 GGAAGCCTCTGCTGCCATGTGTG 51

RESULT 15
 ABK3462
 ID ABK3462 standard; DNA; 23 BP.

XX
 AC ABK3462;
 XX
 DT 23-APR-2002 (first entry)

XX Human TNF-receptor II 3'UNT nt 1690 (T/C) TET probe (T allele).

XX Human; anti-tumour necrosis factor receptor II; TNF receptor II;
 KM TNF receptor I; infliximab therapy; Crohn's disease; malignant disorder;
 KM inflammatory disorder; chronic disease; receptor; probe; ss.

XX Homo sapiens.

XX EPI172444-A1.

XX 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX (CONA-) CONARIS RES INST GMBH.

PI Schreiber S, Hampe J, Mascheretti S;

DR WPI; 2002-156651/21.

XX
 PT Detecting non-responders to anti-human necrosis factor therapy,
 PT comprises testing an individual for homozygosity for a single
 PT nucleotide polymorphism in the gene coding for the tumour necrosis
 PT factor receptor II -

PS Disclosure; Page 8; 45pp; English.

XX The present invention relates to a method for detecting non-responders
 CC to anti-tumour necrosis factor (TNF) therapy. The method involves testing
 CC an individual for homozygosity for at least one single nucleotide
 CC polymorphism (SNP) in the gene coding for TNF receptor II, which is
 CC located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
 CC A/G) and one in exon 6 (position 587 T/G) which result in 1y561ys and
 CC Met196Iys respectively, are also described. The method of the invention
 CC is useful for detecting non-responders to anti-TNF therapy such as
 CC infliximab therapy, or therapy of Crohn's disease. The genes containing
 CC the 2 novel polymorphisms are useful for diagnostic purposes in
 CC inflammatory, malignant or other chronic diseases. The present sequence
 CC represents a TagMan probe used in the methods of the present invention.

XX Sequence 23 BP; 1 A; 8 C; 6 G; 8 T; 0 other;

Query Match 43.1%; Score 22; DB 24; Length 23;
 Best Local Similarity 100.0%; Pred.No. 0.038; Indels 0; Gaps 0;
 Matches 22; Conservative 0; Mismatches 0;

QY 26 CCTCTGCTGCCATGTGTGTCC 47
 DB 1 CCTCTGCTGCCATGTGTGTCC 22

RESULT 16
 AAQ10956
 ID AAQ10956 standard; DNA; 2339 BP.

XX
 AC AAQ10956;

XX
 DT 09-JAN-2003 (updated)
 DT 24-MAY-1991 (first entry)

XX Encodes human 75KD TNF-binding protein.

XX Tumour Necrosis Factor; binding proteins; septic shock;
 KM autoimmune glomerulonephritis; lymphokine; cytokine.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 1..1179
 FT /*tag= a
 FT /product= 75KD TNF-BP

XX EPI17563-A.

XX 20-MAR-1991.

XX 31-AUG-1990; 90EP-0116707.

XX 20-APR-1990; 90CH-0001347.

XX 12-SEP-1989; 89CH-0003319.

XX 08-MAR-1990; 90CH-0000746.

XX (HOFF) HOFFMANN-LA ROCHE AG.

PI Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Lotscher H;

DR P-PsDB; AAR11605.

DR WPI; 1991-081851/12.

XX Insoluble tumour necrosis factor binding proteins - and DNA
 PT encoding them, useful in pharmaceutical prods. and for antibody
 PT prodn.

PS Claim 4; Fig 1; 26pp; German.

XX Partial amino acid sequences were determined for the 55 and 75KD
 CC TNF-BPs (see AAR11072-R1081) and oligonucleotide primers were used
 CC synthesised based on these partial sequences. The primers were used
 CC to produce a cDNA fragment for use as a probe to screen a human
 CC plasmal cDNA bank constructed in lambda gt11. Positive clones were
 CC identified and sequenced. Repeated sequencing showed a discrepancy
 CC at position 7 such that the third codon encodes either Thr or Ser.
 CC DNA constructs comprising the TNF-BP coding sequence may also
 CC contain a fragment encoding a human Ig domain. Recombinant
 CC constructs are used to transform cells to confer improved TNF-
 CC binding properties.
 CC See also AAQ10955.
 CC (Updated on 09-JUN-2003 to add missing OS field.)

XX Sequence 2339 BP; 494 A; 720 C; 685 G; 439 T; 1 other;

Query Match 41.2%; Score 21; DB 12; Length 2339;
 Best Local Similarity 100.0%; Pred.No. 0.12; Indels 0; Gaps 0;
 Matches 21; Conservative 0; Mismatches 0;

QY 20 GGAAGCCTCTGCTGCCATGTG 40
 DB 1372 GGAAGCCTCTGCTGCCATGTG 1392

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RESULT 17
AA209171
ID AA209171 standard; cDNA; 2339 BP.
XX
XX AA209171;
XX
AC
XX
DT 20-MAR-2003 (updated)
DT 18-OCT-1999 (first entry)
XX
DE Human tumour necrosis factor binding protein cDNA fragment.
XX
KW Tumour necrosis factor binding protein; TNF; insoluble protein; agonist;
KW anti-inflammatory; antimalarial; treatment; septic shock; inflammation;
KW autoimmune glomerulonephritis; cerebral malaria; immune response;
KW antagonist; diagnosis; de.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1179
FT /tag= a
FT /product= "TNF binding protein"
FT /note= "Partial sequence, no start codon given"
XX
PN EP939121-A2.
XX
PD 01-SEP-1999.
XX
PF 31-AUG-1990; 99EP-0100703.
XX
PR 12-SEP-1989; 89CH-0003319.
PR 08-MAR-1990; 90CH-0000746.
PR 20-APR-1990; 90CH-0001347.
PR 31-AUG-1990; 90EP-0116707.
XX
PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
PI Brockhaus M, Dembic Z, Gentz R, Leselauer W, Loetscher H;
PI Schlegel E;
XX
DR WPI; 1999-480840/41.
DR P-PSDB; AAY30935.
XX
PT New insoluble proteins, and fragments, that bind to tumor necrosis
PT factor, used to treat e.g. septic shock or cerebral malaria
XX
PS Claim 4a; Fig 4; 25pp; German.
XX
CC This invention describes novel homogeneous insoluble proteins (I),
CC their (in)soluble fragments (Ia) and their salts that can bind tumour
CC necrosis factor (TNF). The products of the invention have
CC anti-inflammatory and antimalarial activity. (I) and (Ia) are used (i)
CC to treat diseases in which TNF is involved (e.g. septic shock, autoimmune
CC glomerulonephritis, cerebral malaria, immune responses and inflammation),
CC (ii) to purify TNF, (iii) to identify TNF (ant)agonists and (iv) for
CC diagnostic determination of TNF in body fluids. Antibodies raised against
CC (I) are used for affinity purification of (I). This sequence encodes
CC a tumour necrosis factor binding protein fragment described in the method
CC of the invention.
CC (Updated on 20-MAR-2003 to correct PR field.)
XX
SQ Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
Query Match 41.2%; Score 21; DB 20; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 GGAAAGCCTCTGCTGCCATGG 40
Db 1372 GGAAAGCCTCTGCTGCCATGG 1392

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RESULT 18
AA48860
ID AA48860 standard; DNA; 2339 BP.
XX
XX AA48860;
XX
AC
XX
DT 12-NOV-2001 (first entry)
DT
XX
DE Human TNFBP-associated DNA #2.
XX
KW TNF; tumor necrosis factor binding protein; TNFBP; treatment;
KW insoluble protein; anti-inflammatory; immunosuppressive; antibacterial;
KW antiprotozoal; treatment; meningococcal sepsis; cerebral malaria;
KW autoimmune glomerulonephritis; de.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1179
FT /tag= a
FT /product= "TNFBP-associated protein"
XX
PN EP132471-A2.
XX
PD 12-SEP-2001.
XX
PF 31-AUG-1990; 201EP-0108117.
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PR 12-SEP-1989; 89CH-0003319.
PR 08-MAR-1990; 90CH-0000746.
PR 20-APR-1990; 90CH-0001347.
PR 31-AUG-1990; 90EP-0116707.
PR 31-AUG-1990; 99EP-0100703.
XX
PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
PI Brockhaus M, Dembic Z, Gentz R, Leselauer W, Loetscher H;
PI Schlegel E;
XX
DR WPI; 2001-559312/63.
DR P-PSDB; AAB86818.
XX
PT New homogeneous, insoluble proteins that bind tumor necrosis factor
PT (TNF), useful for treating TNF-mediated disorders, e.g. inflammation
XX
PS Claim 4a; Fig 4; 26pp; German.
XX
CC This invention describes novel insoluble proteins (I), also their
CC (in)soluble fragments and pharmaceutically acceptable salts, able to bind
CC tumor necrosis factor (TNF) and in homogeneous form. The products of the
CC invention have anti-inflammatory, immunosuppressive, antibacterial,
CC antiprotozoal activity. (I), and related recombinant proteins, are used
CC to treat diseases mediated by TNF, e.g. shock in cases of meningococcal
CC sepsis; development of autoimmune glomerulonephritis and cerebral
CC malaria. Also (I), or antibodies specific for them, are used for
CC diagnostic determination of TNF in body fluids, for affinity purification
CC of TNF and for identifying (ant)agonists of TNF. This sequence encodes a
CC human TNF binding protein described in the method of the invention.
XX
SQ Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
Query Match 41.2%; Score 21; DB 22; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 GGAAAGCCTCTGCTGCCATGG 40
Db 1372 GGAAAGCCTCTGCTGCCATGG 1392

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RESULT 19

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ABQ74767
ID ABQ74767 standard; DNA; 15602 BP.
XX
AC ABQ74767;
XX
XX 24-OCT-2002 (first entry)
DT
XX
XX Human TNFR2 partial genomic sequence SEQ ID NO:17.
DE
XX Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;
XX gene; ds.
XX
XX Homo sapiens.
OS
XX US6410324-B1.
PN
XX 25-JUN-2002.
PD
XX 27-APR-2001; 2001US-0844634.
PF
XX 27-APR-2001; 2001US-0844634.
PR
XX (ISIS-) ISIS PHARM INC.
PA
XX Bennett CF, Watt AT;
PI
XX WPI; 2002-606814/65.
DR
XX
XX New compounds antisense to nucleic acid encoding human or mouse tumor
PT necrosis factor receptor 2 are useful to treat disease associated with
PT mouse tumor necrosis factor receptor 2 expression
XX
XX Claim 1; Column 67-80; 69pp; English.
PS
XX
XX The present invention describes compounds of 8-30 nucleobases antisense
CC to a nucleic acid encoding human or mouse tumour necrosis factor
CC receptor 2 (TNFR2). Also described is a method for inhibiting expression
CC of human or mouse TNFR2 comprising contacting cells or tissues in vitro
CC with one of the claimed compounds. The antisense compounds are used to
CC treat a disease or condition associated with expression of TNFR2. The
CC present sequence represents a partial genomic sequence of human TNFR2,
CC which is used in an example from the present invention.
XX
XX Sequence 15602 BP; 3439 A; 4290 C; 4227 G; 3646 T; 0 other;
SQ
Query Match 41.2%; Score 21; DB 24; Length 15602;
Best Local Similarity 100.0%; Fred. NO. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 GGAAAGCCTCTGTCGCATGG 40
DB 11202 GGAAAGCCTCTGTCGCATGG 11222

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Job time : 145 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 20:05:42 ; Search time 149 Seconds
(without alignments)
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Title: US-09-856-937a-1_COPY_580_630

Perfect score: 51
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Searched: 2201672 seqs, 1661799599 residues

Word size : 20

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Post-processing: Listing first 100 summaries

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and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	51	100.0	2224	9 US-09-800-909-1	Sequence 1, Appl1
2	51	100.0	2224	10 US-09-800-908-2	Sequence 2, Appl1
3	51	100.0	2613	13 US-10-101-510-675	Sequence 675, App
4	51	100.0	3683	10 US-09-954-456-1187	Sequence 1187, App
5	51	100.0	3683	11 US-09-903-176A-49	Sequence 49, Appl
6	51	100.0	3683	11 US-09-903-176A-51	Sequence 51, Appl
7	51	100.0	3683	11 US-09-902-176A-53	Sequence 53, Appl
8	51	100.0	3683	13 US-10-101-510-22	Sequence 22, Appl
9	22	43.1	23	11 US-09-902-176A-46	Sequence 46, Appl
10	21	41.2	3492	15 US-10-207-655-191	Sequence 191, App

ALIGNMENTS

RESULT 1
US-09-800-909-1
; Sequence 1, Application US/09800909
; Patent No. US2001001983A1
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSER: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-09-800-909-1

Query Match 100.0%; Score 51; DB 9; Length 2224;
Best Local Similarity 100.0%; Pred. No. 6.8e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCCTGCTGCGATGCGTGTCCCTCT 1700

RESULT 2
US-09-800-908-2
; Sequence 2, Application US/09800908
; Patent No. US20020111462A1
; GENERAL INFORMATION:

APPLICANT: WALLACH, David
BIGDA, Jacek
BELETSKY, Igor
METT, Igor
TITLE OF INVENTION: TNF LIGANDS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/800,908
FILING DATE: 08-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/477,347
FILING DATE: <Unknown>
APPLICATION NUMBER: IL 106271
FILING DATE: 08-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, G. Kevin
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: WALLACH=10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90..1472
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-800-908-2
Query Match 100.0%; Score 51; DB 10; Length 2224;
Best Local Similarity 100.0%; Pred. No. 6.8e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTGCTGCCATGATGTCCTCT 1700
RESULT 3
US-10-101-510-675
Sequence 675, Application US/10101510
Publication No. US20030148295A1
GENERAL INFORMATION:
APPLICANT: WAN, JACKSON
APPLICANT: WANG, YIXIN
TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
FILE REFERENCE: 15117.0012
CURRENT APPLICATION NUMBER: US/10/101,510
PRIOR FILING DATE: 2002-03-20
PRIOR APPLICATION NUMBER: 60/276,947
PRIOR FILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 805
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 675

LENGTH: 2613
TYPE: DNA
ORGANISM: Homo sapiens
US-10-101-510-675
Query Match 100.0%; Score 51; DB 13; Length 2613;
Best Local Similarity 100.0%; Pred. No. 6.7e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 580 AGCAGAGGCGAGGAGTTGGGGAAGCCTGCTGCCATGATGTCCTCT 630
RESULT 4
US-09-954-456-1187
Sequence 1187, Application US/09954456
Patent No. US20020115057A1
GENERAL INFORMATION:
APPLICANT: Young, Paul
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
FILE REFERENCE: 689290-76
CURRENT APPLICATION NUMBER: US/09/954,456
FILING DATE: 2001-09-18
PRIOR APPLICATION NUMBER: US/60/233,617
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US/60/234,052
PRIOR FILING DATE: 2000-09-20
PRIOR APPLICATION NUMBER: US/60/234,923
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,134
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,637
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,638
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,711
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,720
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,840
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,863
PRIOR FILING DATE: 2000-09-27
NUMBER OF SEQ ID NOS: 2276
SOFTWARE: Patentin version 3.0
SEQ ID NO 1187
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
US-09-954-456-1187
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Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 5
US-09-902-176A-49
Sequence 49, Application US/09902176A
Publication No. US2003009943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Hampe, Jochen
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
TITLE OF INVENTION: No. US2003009943A1-Responders to Anti-TNF-Therapy

FILE REFERENCE: 25481-P001US
CURRENT APPLICATION NUMBER: US/09/902,176A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: EP 00114786.7
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 49
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)..(1475)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (156)
US-09-902-176A-49

Query Match 100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTCT 1700

RESULT 6
US-09-902-176A-51
Sequence 51, Application US/09902176A
Publication No. US20030099943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
FILE REFERENCE: 25481-P001US
CURRENT APPLICATION NUMBER: US/09/902,176A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: EP 00114786.7
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 51
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)..(1475)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (156)
US-09-902-176A-51

Query Match 100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTCT 1700

RESULT 7
US-09-902-176A-53
Sequence 53, Application US/09902176A
Publication No. US20030099943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting

APPLICANT: Hampe, Jochen
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
FILE REFERENCE: 25481-P001US
CURRENT APPLICATION NUMBER: US/09/902,176A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: EP 00114786.7
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 53
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)..(1475)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (156)
US-09-902-176A-53

Query Match 100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTCT 1700

RESULT 8
US-10-101-510-22
Sequence 22, Application US/10101510
Publication No. US20030148295A1
GENERAL INFORMATION:
APPLICANT: WAN, JACKSON
APPLICANT: WANG, YIXIN
TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
FILE REFERENCE: 15117,0012
CURRENT APPLICATION NUMBER: US/10/101,510
CURRENT FILING DATE: 2002-03-20
PRIOR APPLICATION NUMBER: 60/276,947
PRIOR FILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 805
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 22
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
US-10-101-510-22

Query Match 100.0%; Score 51; DB 13; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTCT 1700

RESULT 9
US-09-902-176A-46
Sequence 46, Application US/09902176A
Publication No. US20030099943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Hampe, Jochen
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting

;/ TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
;/ FILE REFERENCE: 25481-P001US
;/ CURRENT APPLICATION NUMBER: US/09/902,176A
;/ CURRENT FILING DATE: 2001-07-10
;/ PRIOR APPLICATION NUMBER: EP 00114786.7
;/ PRIOR FILING DATE: 2000-07-10
;/ NUMBER OF SEQ ID NOS: 54
;/ SOFTWARE: PatentIn Ver. 2.1
;/ SEQ ID NO 46
;/ LENGTH: 23
;/ TYPE: DNA
;/ ORGANISM: Artificial Sequence
;/ FEATURE:
;/ OTHER INFORMATION: Description of Artificial Sequence: TET Probe#
US-09-902-176A-46

Query Match 43.1%; Score 22; DB 11; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 CCTGCTGTCATGCTGTGTC 47
Db 1 CCTGCTGTCATGCTGTGTC 22

RESULT 10
US-10-207-655-191
;/ Sequence 191, Application US/10207655
;/ Publication No. US20030118592A1
;/ GENERAL INFORMATION:
;/ APPLICANT: Ledbetter, Jeffrey A.
;/ APPLICANT: Hayden-Ledbetter, Martha S.
;/ TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
;/ FILE REFERENCE: 390069_401c1
;/ CURRENT APPLICATION NUMBER: US/10/207,655
;/ CURRENT FILING DATE: 2002-07-25
;/ NUMBER OF SEQ ID NOS: 426
;/ SOFTWARE: PatentIn version 3.0
;/ SEQ ID NO 191
;/ LENGTH: 3492
;/ TYPE: DNA
;/ ORGANISM: Homo sapiens
US-10-207-655-191

Query Match 41.2%; Score 21; DB 15; Length 3492;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCCATGG 40
Db 1472 GGAAAGCCTCTGCTGCCATGG 1492

Search completed: December 16, 2003, 21:05:26
Job time : 150 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:40:17 ; Search time 45 Seconds
(without alignments)
500.234 Million cell updates/sec

Title: US-09-856-937a-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcagcagcagctcg9.....ctgcacatggtgtccctct 51

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 569978 seqs, 220691566 residues

Word size : 20

Total number of hits satisfying chosen parameters: 5

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 100 summaries

Database : Issued Patents NA:*

1: /cgn2_6/prodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/prodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/prodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/prodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/prodata/1/ina/PCUTS_COMB.seq:*
6: /cgn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	51	100.0	2224	3	US-08-477-347-2
2	51	100.0	2224	3	US-08-476-862-1
3	51	100.0	2224	4	US-09-800-909-1
4	51	100.0	3683	4	US-09-844-634-3
5	21	41.2	15602	4	US-09-844-634-17

ALIGNMENTS

RESULT 1
US-08-477-347-2
; Sequence 2, Application US/08477347
; Patent No. 6232446

GENERAL INFORMATION:
APPLICANT: WALLACH, David

APPLICANT: BIGDA, Jacek

APPLICANT: BELETSKY, Igor

APPLICANT: METT, Igor

TITLE OF INVENTION: TNF LIGANDS

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/477,347

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/115,685

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: IL 106271

FILING DATE: 08-JUL-1993

ATTORNEY/AGENT INFORMATION:

NAME: Townsend, G. Kevin

REGISTRATION NUMBER: 34,033

REFERENCE/DOCKET NUMBER: WALLACH=10

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-628-5197

TELEFAX: 202-737-3528

TELEX: 248633

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 2224 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 90..1472

US-08-477-347-2

Query Match

Best Local Similarity 100.0%; Score 51; DB 3; Length 2224;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db

1 AGCAGAGCAGCAGGAGTTGGGAAAGCTTGTCCTCATGTGTCTCTT 51

US-08-476-862-1

; Sequence 1, Application US/08476862

; Patent No. 6262239

GENERAL INFORMATION:

APPLICANT: WALLACH, David

APPLICANT: BIGDA, Jacek

APPLICANT: BELETSKY, Igor

APPLICANT: METT, Igor

APPLICANT: ENGELMANN, Hartmut

TITLE OF INVENTION: TNF INHIBITORS

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/476,862

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 107267
; FILING DATE: 12-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-08-476-862-1

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Query Match          100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      1650 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGCTGTGCTCCTT 1700

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RESULT 3
; US-09-800-909-1
; Sequence 1, Application US/09800909
; Patent No. 6555111
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039

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; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-09-800-909-1

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Query Match          100.0%; Score 51; DB 4; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      1650 AGCAGAGCGACGAGTGGGAAAGCCTCTGCTGCCATGCTGTGCTCCTT 1700

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RESULT 4
; US-09-844-634-3
; Sequence 3, Application US/09844634
; Patent No. 6410324
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION
; FILE REFERENCE: RTS-0216
; CURRENT APPLICATION NUMBER: US/09/844,634
; CURRENT FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 174
; SEQ ID NO 3
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)...(1475)
; US-09-844-634-3

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Query Match          100.0%; Score 51; DB 4; Length 3683;
Best Local Similarity 100.0%; Pred. No. 2.5e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 5
; US-09-844-634-17
; Sequence 17, Application US/09844634
; Patent No. 6410324
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION

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FILE REFERENCE: RTS-0216
CURRENT APPLICATION NUMBER: US/09/844,634
CURRENT FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 17
LENGTH: 15602
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
US-09-844-634-17

Query Match 41.2%; Score 21; DB 4; Length 15602;
Best Local Similarity 100.0%; Pred. NO. 0.019;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 20 GGAAAGCCTCTGTGCCATGG 40
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Db 11202 GGAAAGCCTCTGTGCCATGG 11222

Search completed: December 16, 2003, 20:28:33
Job time : 45 secs

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